

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aaacagaact | tctacccaac | cttagigcat | ttttattttc  | acaagtnaaa | cagaaaagga | 180 |
| aaatagttaa | tttaagtcta | ttcagcacct | ttagtaaaagt | caaaaananc | aacatctcca | 240 |
| tatatcaaaa | acatttgcat | ctgtatcacc | aaacatgtaa  | agttaattat | tttgttccat | 300 |
| ctttaacatg | aattatttta | tgtacattac | tttttagttc  | aataaatttt | aacaatatit | 360 |
| aaaaattatc | taaattcata | aaagtatttc | ataaatttca  | acatttaatt | attatgtaca | 420 |
| tataagggaa | gtccacgaaa | aaagttaaaa | naaaatgttt  | tcataaagtt | caaagccaca | 480 |
| ttaccaatit | tagcaaaaaa | tcccacaaaa | tcaaggggga  | aggnatccaa | acnttccaaa | 540 |
| atcttatctg | cngccaaann | tt         |             |            |            | 562 |

<210> 9703

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9703

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| gttggttcatt | tgaagcaatt | tttctttttt | attattatac  | tttaagtttt | agggtacatg | 60  |
| tgcacagtgt  | gcaggttagt | tacatatgta | tacatgtgcc  | atgotgggtc | gctgcaccca | 120 |
| ctaactcgtc  | atctancatt | aggatatatc | cccaatgcta  | tccctcccc  | tccccccacc | 180 |
| ccacaacagt  | cccanagtg  | tgatgttccc | cttctgtgt   | ccatgtgttc | tcattgttca | 240 |
| gttcccacct  | atgaatgana | atatgogggt | tttggttttt  | tgttcttgcg | atagtttact | 300 |
| ganaatgatg  | atttccaatt | tcatccatgt | ccctacaaaag | gacatgaact | catcgttttt | 360 |
| tatggctgca  | tantattcca | tggtgtatat | gtgccacatt  | ttcttaatcc | aatctgtcat | 420 |
| tggtggacat  | ttgggttggt | tccaaatctt | tgctattgtg  | aaaaatgccg | caataaacat | 480 |
| acacntncgt  | ttntctttat | ancancatna | attaaaatcc  | cttgggggtt | ataccatta  | 540 |
| atgggaaagc  | tggttcnaat | ggtattccca |             |            |            | 570 |

<210> 9704

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9704

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ggtggtgata | gttacacaac | attatgaatg | tgtttaattc | cactgaactg | tgttcttaaa  | 60  |
| aatggttgag | atggtaaaa  | ttatgttcta | tgtattttac | cacaataaaa | tgaaattgat  | 120 |
| agggaaaaga | tgaggcaagt | acatttgtaa | ggaaaacaga | aagcttgga  | caattcttat  | 180 |
| atataaagca | agtaatattt | catgtataat | cttaatctca | gatggtaggt | aaagaccact  | 240 |
| gtaaaactaa | ccagtaccct | tgagtgtcac | aggcacattt | catttccaaa | gcttatgaga  | 300 |
| ttgtaagtaa | ccagaaccac | ttgacaagat | acctgaataa | atgaagcgaa | ggatgtctga  | 360 |
| taaacaagaa | cagaagaggg | cgtctttaac | aatgactcgt | aatggtgggt | tgccatgaaga | 420 |
| ttcntggcta | gcacctggaa | atgcnntatc | tctgtttata | nccaaaanat | tctgggggtt  | 480 |
| ttcccgaaaa | aaccggaatc | cngaatttct | tggaacccc  | cnttgaaaac | cccttnaaac  | 540 |
| ctg        |            |            |            |            |             | 543 |

<210> 9705

<211> 574

<212> DNA

<213> Homo sapiens

000220" 59462950

<400> 9705

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| acaaacaaga | ctagcttata | gcaaattctc | tatagctaag | ggtcaattta | aaatccttgg | 60  |
| cttatatctc | cccctcactc | aatgactaca | tgatgcaaac | taattttatt | aacaccttaa | 120 |
| gcaaaacata | ctggaatttc | acaaaatgtn | caagatttca | atatttaagg | aactggggtt | 180 |
| aggaagcaaa | agtggctttc | aggtcttcca | gtctttctct | caagtaataa | agctctgctg | 240 |
| tgaatattca | aagctattgg | gaaattaccg | gtagattttt | ctgttttttt | tttttcgggt | 300 |
| ttccactatg | ttgtttctct | anatatgtaa | gcttactcta | ttaaccaaaa | tctcagcttg | 360 |
| accattcttg | ataagtacct | aatcgacatg | tnactttttt | tctgccttaa | atatgtataa | 420 |
| canggacana | acccttaaat | ctgatcaatt | attaattcct | gatttacaan | ttctatgggt | 480 |
| anctaacaaa | acttatccat | gcctttattg | ccctttacta | acccaatttt | aaaaaggtng | 540 |
| gaattaancc | cncccaacca | attatccngt | cagt       |            |            | 574 |

<210> 9706

<211> 563

<212> DNA

<213> Homo sapiens

<400> 9706

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtttttaaac | agctttactg | aggtataatt | gacatatcat | aacattcacc | tattttaagt | 60  |
| gtacagttta | attattttta | gtaaaatttt | agacttggtt | gaccatcatc | acaatcttgt | 120 |
| tttggacat  | ttctataatt | cctaanaaat | ccctcatgct | catcaatacc | accccttatt | 180 |
| cccactcccc | agctccagac | aacccttaat | tgacttactg | acactacaga | tttgtctttt | 240 |
| ctggatatca | taaaaataga | gtcatacaac | atgtggtttt | ttgtatctgt | cttctttcac | 300 |
| ttagattaat | gtgcttttgt | ggttcacctg | tgttgtagca | cgtatcaata | ttttaatttt | 360 |
| ttaggtgcta | gattctatta | aattgtatgg | atcactccca | tttgtttatt | ctttcatcag | 420 |
| ctgatanata | tttgangtgt | ttctacttta | tggactatta | tggataaagc | tgctactaat | 480 |
| attcccattc | cagtnnttgt | tgganatagg | ttttttnccc | ttggaatnaa | caccaggaat | 540 |
| gaaattgcca | ggttatacgg | taa        |            |            |            | 563 |

<210> 9707

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9707

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| caaatattta | attggaagga | actacatctg | gaataagttt  | taaaggaatc | catataaaaa | 60  |
| gaaaagcaaa | tccattagaa | attgatataa | acagttgatt  | ttatctggaa | ccaagaatgt | 120 |
| gaatgaattg | gaacctanat | gtcctaacct | gtttctttgc  | ataaaagcca | gttgaatttt | 180 |
| gaaatttata | tggcaattat | actttattac | tttacaataga | gctttgtttt | tagctaatat | 240 |
| tttagagaca | gattacccaa | aattacctaa | tttggttccc  | acttcattcc | ttctcaaaaa | 300 |
| ccaaacataa | aacanaaggg | ggccagctgt | ggtggctcat  | gcctgtaatc | ccaccacttt | 360 |
| gggaagccna | agaagggtgg | atcactaggt | caggattttg  | anaccaccct | gaccaacatg | 420 |
| gtgaaacccc | gtctctacta | aaaatacnaa | aatccccccag | ntntggtggc | cctgcctggt | 480 |
| atccccaaat | acttaggang | ctnangcngg | aaaatccctt  | ga         |            | 522 |

<210> 9708

<211> 512

<212> DNA



<213> Homo sapiens

<400> 9708

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| acaacaaaac | tttacatggt | tttattatac | attactgtta | ttgaaagcaa | actttataca  | 60  |
| aaaagtttta | tacagataaa | aaaaatcctt | ggctaggcaa | agccgtttat | gtgtgtgcat  | 120 |
| atacagaaac | acacatacat | acatatatac | acggtatitt | acatcataat | tatacatatt  | 180 |
| tataaatata | ttatttaaat | tattttatac | tataccaaaa | caaggaggca | attataaaaag | 240 |
| caaataaaaa | atggatgaac | aattgaacta | aatagtcact | aagtttaaaa | tgctacaaaa  | 300 |
| ctattttttt | aatctagaaa | gtcattttct | taaaatatca | aaactaagat | ttcaatacat  | 360 |
| cactgttgct | ttcatttttg | taagttctaa | catgtttaaa | aataaatatt | ttgacccaaa  | 420 |
| acagataagc | naatcagaat | gatgactagc | ncaagctgaa | catgctgatg | tnaaattana  | 480 |
| naatccctga | gtataaccaa | tatanattat | cn         |            |             | 512 |

<210> 9709

<211> 460

<212> DNA

<213> Homo sapiens

<400> 9709

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ccatttttat | ttgatgtttc | caaataataa  | aaaatcaggg | antcttacat | caattatctc | 60  |
| aatgaaaac  | atgcaaagca | attcngtgtn  | tacaacaatc | atttttcccc | ttcagttctg | 120 |
| ctgctttata | caacagtggt | attgacaaaa  | aattggatgg | catgtgcctg | ggtcagaaaa | 180 |
| tgtcatctgt | ttacaaaata | acatcatgca  | gcacagtttc | tactttgtct | gcaagtcaat | 240 |
| tcacaaaaac | tacttatttt | ctgtttttta  | tttgggaggg | acatggaact | gaaaaattta | 300 |
| gctgcccatt | tttattcaac | tacccccacca | aaaaaaaaaa | aaaaaatcac | aatgacagct | 360 |
| cccnacactc | tgcaaatttt | ggagggttga  | natagtaaac | actatttgct | ntactccnca | 420 |
| gaatttacta | tttnacagaa | attaatctcc  | nangggcctt |            |            | 460 |

<210> 9710

<211> 435

<212> DNA

<213> Homo sapiens

<400> 9710

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| gaataatatt  | atgggggggg | gggctaagac | ntttaaatta  | atattgtttt | cacatcaagg | 60  |
| aaccatcgct  | agaacaaagt | tcccttgtaa | tggctcggccc | tgtcaatgaa | attttcatta | 120 |
| ggatgataat  | gtgcaaggag | cacggagaga | aaggacaagg  | cagtgaacac | atgcattcca | 180 |
| gtggaggagg  | aacgaggctg | atgtgcaaca | caactgagga  | aaatttatag | attaaactat | 240 |
| tcaaaaactgc | taagcagcct | cctgtaccac | ataagtccag  | tanttctaag | aaaatacaga | 300 |
| tatggtanaa  | aaagtnanaa | aattttcacc | acaaaaccaa  | tagttaacta | ctaaccnaga | 360 |
| aagttatnca  | caaaatatat | ctctcaatac | agtgatcaca  | cctcatctta | ntcaaccgac | 420 |
| tcnatggccg  | gancn      |            |             |            |            | 435 |

<210> 9711

<211> 392

<212> DNA

<213> Homo sapiens

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<400> 9711

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| agagacagtg | aaagattttta | tttttttttt | tacttttcac | caaacacacc | cttttctaaa | 60  |
| aaacataaaa | gcatgcacat  | cgacgggatt | cttataaaga | aaaattaata | actaagctgt | 120 |
| aatcagtaa  | taatacaaac  | aaaagtttaa | atgatatgtg | aaaagactta | caggtaggta | 180 |
| tacggntctt | aatttttagaa | aataactcaa | gtcagtatca | atacaggtta | aggagaagct | 240 |
| tctaattttc | cnaacatttt  | gatacaaaat | ttttttcaac | gactgtnttt | tatanacctt | 300 |
| ttgtganaaa | attagtatag  | ttctatgaaa | cctaacattc | nantgatctt | atgcnggtca | 360 |
| ggntaccttg | tttaaatgag  | ttagaaccnc | at         |            |            | 392 |

<210> 9712

<211> 516

<212> DNA

<213> Homo sapiens

<400> 9712

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gcatcttaag | acaaatattc  | ttttatttct | gttaaactga | atatacaatt | gttccctagg | 60  |
| caaccaactt | ttgcttataa  | ctacaattta | atttcacgtt | gacaaaacac | agtgaaaaga | 120 |
| caactttgtg | aagatctaata | tacaataata | aataaaataa | tttatacaag | ggtttttttt | 180 |
| tcttgacttt | tctatagggg  | tcatattcat | taaaaagccc | aaaaggntac | ctttgcctta | 240 |
| acccttctgt | agtacaggaa  | tgattcttan | atttgtttcc | ttttgttata | aaancaaata | 300 |
| ttgttttttt | aaaatanccct | gaaatnaaag | gttatattgt | accccaccag | ctaacacact | 360 |
| aantggatna | caaactattc  | tctcggtaat | ttatatanca | aaacatctaa | taaattggta | 420 |
| tggtatcaag | gnataggtaa  | cattacttcc | nccncattta | nttttacttc | aaagtgttaa | 480 |
| ctttgtttaa | ctaatanan   | tggttcctga | nggggt     |            |            | 516 |

<210> 9713

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9713

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| aagaaaagct | tgtccaaggg  | cattcaaatt | taatggcttt | tatataatac | ttggtgtagt  | 60  |
| gcctcgtggc | tgctctgtg   | agccagaaat | aaaggaagct | catggattcc | ccaaaaatga  | 120 |
| aatgccactt | tttccctcat  | catggatgac | tttgtaana  | tgaaccctt  | ttacaggaaa  | 180 |
| ggggttacac | aggctgctga  | taccagtcta | nanagggcac | ccaccagcca | aggctgtgtt  | 240 |
| ctaacttagg | tgatcatacca | tgggccanaa | aaaccatgtn | tccataaagg | ctgtgaanct  | 300 |
| aactanttta | tctgtaattt  | ggtoctantt | gcttccctta | ttttatgtcg | tttttttttt  | 360 |
| tccttaaata | aatctgttca  | aataacctcc | ttatnaatcc | tcccaaata  | atgttctttna | 420 |
| nagaaaacan | tcaanctaaa  | cancaatgat | nacttttatg | gttaaa     |             | 466 |

<210> 9714

<211> 570

<212> DNA

<213> Homo sapiens

<400> 9714

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ataccttatt | gaaaganggt | ttaataaata | taattattaa | ataaatgtta | agacttttaa | 60  |
| tactaaccce | agaaaaattt | aaaaatacaa | attcagtaag | acttttgctc | taacaacaat | 120 |

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|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ttttcaaaac | gaatcaacaa | caaaaaagta | tccagtgttt | cttttcttat | gaagattatt  | 180 |
| aataaaacgc | agtattggta | agcacatttt | aacagtatgc | ttttcttttg | tagggaaaagg | 240 |
| agatatggct | atgtctaaca | tcgtgggatc | caatgtgttt | gatatgttgt | gccttggtat  | 300 |
| tccatggttt | attaaaactg | catttataaa | tggatcagct | cctgcagaag | taaacagcag  | 360 |
| anggactaac | ttacataacc | atctctctca | acatttcaat | tatttttctt | tttttagcag  | 420 |
| ttcacttcaa | tggcttgaaa | ctaaacagaa | agttgggaat | agtctgccta | ttatcatact  | 480 |
| tggggcttgc | tacattatca | gttctatatg | aacttggaat | tattggaaat | aataaaataa  | 540 |
| ngggnggttg | anggtgaaaa | tattaaaatt |            |            |             | 570 |

<210> 9715

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9715

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| cacaagggat | aaatagaact  | ttatttttaa | taaacatttg | cactctgtac | acagccccag  | 60  |
| canaagcagg | gtcagtcgt   | cagctgtctt | gcgcacatca | aagctgccac | agggtcctcg  | 120 |
| cagcagctct | gccagtagcg  | caagcagctg | cccgtgctcc | tcctgtacgc | tgggggggaag | 180 |
| tgcancagc  | tcgtctgcga  | ggctccgctc | caccatgcgg | cccagggccc | gccgcagctc  | 240 |
| cttcagcagc | cgcacggtac  | gcgagtcacc | ctccagccgc | agcaggtcac | tgctgctcan  | 300 |
| tgagatggtg | gcccggcgcc  | cgatcatcac | gatgtgcacg | tccccgtcgg | tcagcagcag  | 360 |
| cacagctagc | gggtgcacct  | gaagaagagt | cccggacgaa | anacgctgcc | attggacttg  | 420 |
| actgccatga | aatacgtcag  | ccatcggtc  | cgtaaccgtg | ttgtaancgg | ttcgttggtc  | 480 |
| ctgtccacca | ggcccaagct  | cttcattttc | ttgcaggcca | aggttccncc | ttattctcac  | 540 |
| ctctgctttt | gcggggccctt | tgggcaacaa | angtcttggg | ggc        |             | 583 |

<210> 9716

<211> 584

<212> DNA

<213> Homo sapiens

<400> 9716

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| atatgcacca | atacctctct  | ttaatatata | aagctctaca | acaaatacct | ctaataattt | 60  |
| tacaattaaa | ttaagtccat  | acttctatac | tactttggtc | tcaacatttt | taaaacatca | 120 |
| attaattttg | aaaattttaca | atttaacaac | atgatcctat | caataacaag | cacattttgt | 180 |
| agtgaattaa | agacacattc  | aaccatgcaa | tccagtgttc | aataccttaa | tgataaataa | 240 |
| caatgctgat | tgacttttat  | tttgaaaaat | cattgaaaac | tggaataatc | atctgagact | 300 |
| cacagtgatc | acaaacatgc  | agaaaaaagc | atacaattct | attcttcctg | aaggaatggt | 360 |
| acaaaatgcc | cactttttta  | tatagggtca | atatgccaaa | ttacttatac | ttttcaatcc | 420 |
| atcatcttct | aacatttgtc  | acttaaaatt | ttcttaaagt | acaaatgttc | ctgttaagtt | 480 |
| gtnacagaaa | atgaaacccc  | actccttcng | tctttaaaaa | ctccgtccca | gtccccccct | 540 |
| aatanccgcc | tttaattaaa  | atatgactcc | ccgtggaaaa | atnn       |            | 584 |

<210> 9717

<211> 562

<212> DNA

<213> Homo sapiens

09629469.072300

<400> 9717

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagcacatac | atttccgctt | tattcaaata | ttgcataaat | acagagcagt | tgggcacatc | 60  |
| cattctaagg | nactgttctg | gtttgaatgc | aattccgcaa | ganagaaaag | agaagccatt | 120 |
| acattctgta | tttttcatct | ctacattcag | actcctccta | tattatatgt | ttattgctac | 180 |
| tgggatatca | atttgagccc | canacttata | gcagcatcat | atgttgacct | ggatgacaag | 240 |
| aattaaagat | acatcctggg | tctagcaatt | ggtataattg | gcacttaatt | acaaactctc | 300 |
| ttgcattatt | ctccacctgt | ttcccaactc | ttgtttaact | aaaaatatta | taaaatcttt | 360 |
| atgagcctga | tccatgaatt | atattttctt | actagcttcc | actaagccta | naacaggact | 420 |
| agttaggcac | atagtaaata | ccccccaaag | tatttatatc | actctcgana | acttcaatgg | 480 |
| aataaagact | atacttttcc | taattgtant | tcnaggaaag | gatgactgaa | cntcttccn  | 540 |
| aanggaaaat | ncctgaattt | tt         |            |            |            | 562 |

<210> 9718

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9718

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| ggtaaaaaca  | gaaaatttta | atttttatat  | agttttatta | acaagcacac | agagaaacgc | 60  |
| tgatatccct  | acatgttgaa | agtgtcacga  | taatattctg | aaaagtacaa | aattcaaatg | 120 |
| tctaaatttt  | acatggtaat | gcaaaaagaaa | aaattactaa | taacaagtat | attttattaa | 180 |
| aaacttcatt  | tatcatgaaa | attagtga    | ttacaaagat | taaactataa | ctgaatttca | 240 |
| taccctaattg | ggtcaagtcc | ctgggtctagg | agcattagag | aggactctct | gagcttctgc | 300 |
| agcaacttcc  | ttagctcttc | cttagaaaat  | accaggtaca | gtttgtggcg | ctcagaggat | 360 |
| accatatctg  | ctaactgtag | gcatttcctga | tactgaccag | tactgtgcaa | tatcgtatga | 420 |
| agcagaaaac  | caacattggc | ngacaaaagct | ttctcagtaa | gaacatttga | tgtgttcctt | 480 |
| cctggtctcc  | tttggnatcc | tctctaacat  | ccaccatccc | ccctccntca | anaaacaaca | 540 |
| agaaattttt  | nattttcncc | ctcccattcg  | cagtt      |            |            | 575 |

<210> 9719

<211> 540

<212> DNA

<213> Homo sapiens

<400> 9719

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctatttattt | atcttattta | ttatccgtct | ctcccagcta | ggatgtnagc | ctcgtgaaag | 60  |
| tggangaagg | gggcttattt | ctgaatctcc | aaatctanaa | tggtacctgc | cacacaaata | 120 |
| tgtgctccat | aaacaaatgc | actttttctt | ttctgcactc | cctgggttgc | aggctgcatg | 180 |
| cnaagcacgt | cctcaanggc | cagggatctg | tctcaagcct | ttttgaaaac | cacccctttc | 240 |
| ctacgtgccc | cacacccagc | tctagcaggg | tgccctcctg | cccctgagcc | tgccctcatc | 300 |
| atgcccattg | ccnaagcctc | angactgaat | cacatttttg | gaatcttccc | aaggataacc | 360 |
| aatnngcatc | attattctac | agcgatgctc | atgtataatt | atgattatta | tcctatatga | 420 |
| acnatccatt | gctgctgtgt | aattccaatg | ggtaattact | ggcctctgaa | gattgaactg | 480 |
| ggcttgann  | gtntttcncc | gttttctctg | aaactgccc  | ctggaacaca | ancaggttng | 540 |

<210> 9720

<211> 567

<212> DNA

09629459.072300

<213> Homo sapiens

<400> 9720

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| acattttacaa | atatttaaatt | tattataact | aaaatgaatt | taattgttct | canattttggc | 60  |
| caccttatag  | ctccgtttta  | ggaggggatt | tgttaaaaac | aaaaatgcat | tataacttgg  | 120 |
| tcaaattact  | ttcacattaa  | ggaaaaaaac | ttctaaaaag | gaaaacaaga | aaagcaactc  | 180 |
| ttcagtttca  | cataattaaa  | agaacaggag | aaagcacgca | agctacatat | agctaaattt  | 240 |
| acgaaaccaa  | ccaaagccag  | ggggatttct | cttctgatta | tgtgtcataa | aaaggtccac  | 300 |
| tgtcttatat  | acacatgtat  | ataatgttac | attccatcac | tgtaaaaagt | cccctttgcc  | 360 |
| ccctccccc   | aaaaagtttc  | agtctagtct | ccaaacttgg | aangcggcgc | tcgctcctgc  | 420 |
| tgccggtgca  | attcgttctc  | ggtcancaac | tggaagttct | cggcgcgcac | cgggtcaactc | 480 |
| caactccact  | cccgcaaaag  | nccgttttcc | cacccaacng | nttgtctcaa | ccgaancngg  | 540 |
| tnttctctc   | cccctgcccc  | aaaggnc    |            |            |             | 567 |

<210> 9721

<211> 578

<212> DNA

<213> Homo sapiens

<400> 9721

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| acgttttcatt | atagtttttta | atattgtatac | tttttgttta | ctcataaggc  | agaacacgat  | 60  |
| tttaaataata | aacacacata  | cataaacata  | catatgtaca | catttttgatt | actcatgagg  | 120 |
| caaaacatgt  | tcatatatat  | ttgtgtgtgt  | gtatttttnc | ccattttgttt | tggcatttcc  | 180 |
| cttaaacagg  | atgttaaaaag | ataaaagaaat | agatttagtc | tatttttctg  | ctanananag  | 240 |
| gggcctcaca  | cttcttgttg  | atattgcaa   | gcccttctcc | tctttgttaag | tataagaaat  | 300 |
| atcaacttct  | ttattttattg | tggtaaata   | acataacata | aaagtgatga  | ttttaaccac  | 360 |
| atttaaagt   | gcagtttctgt | ggcattaagt  | acattcacac | tgttgagcac  | ccataaccat  | 420 |
| catccatctc  | canaactttt  | taccttccca  | aactaaaact | ccggacccac  | taaacactca  | 480 |
| ctcctccatt  | gnccnctccc  | cccagccctt  | gggaaccacc | aatcctatatt | cctgggtctct | 540 |
| gtgaaactga  | acngcnccaa  | aatcccccat  | ataantta   |             |             | 578 |

<210> 9722

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9722

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| aagaatttgt | accagtaa   | ttattccaag | taagacttgt  | gtgcacacac | caggcagata  | 60  |
| atttccacac | aaacaccaa  | cattgtagta | aaactagtta  | acactttggc | catgaaactc  | 120 |
| aaagatactt | gaaaaacctc | togatagcac | tttgagtcac  | ttaattctga | caaataattaa | 180 |
| tatgtcatcc | atgcttgccc | agttataatt | ttacaataata | attgtatttt | tcattgtact  | 240 |
| tattattcat | tatacttact | atatataatt | aaaacatctt  | tgctgaaatt | ctcttatccc  | 300 |
| aaaaataatt | tttcagtaac | tccaaaatac | ccacatgtac  | ctcttagcac | gctattccaa  | 360 |
| tatcaaaatt | ctttttcttc | aagtaacaag | ttctcaatcc  | acaccattcc | tgatcacaga  | 420 |
| tataactgat | atgcagtttt | ataaacagct | ctttacncct  | ggtnccaatt | ttagcngggc  | 480 |
| aaccancctt | ccctgatatc | ccaaatttnc | ttggcacana  | atcntccata | gctttggg    | 538 |

<210> 9723

09629469.072800

<211> 569  
<212> DNA  
<213> Homo sapiens

<400> 9723

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| gcctgttgta | naatattgtt  | tatttctggg | cataaattgt | tgaatgatgc | aaaacaaatt  | 60  |
| ttatgacaca | aattagtatt  | gcttgacaca | ataaaaaaag | gttaattatt | taatgatata  | 120 |
| tcttcattta | ngttcccttg  | attggggaca | tgggtaacta | acttaacaa  | actaccttac  | 180 |
| ttgacataaa | acttataaca  | agggaaaaaa | gttaacaact | taaagagata | ataaaatcaa  | 240 |
| agcctattat | gttattaaaa  | agattcacga | gttactacca | ctactattac | tagttaatat  | 300 |
| ttattgaatt | actctgtgct  | tggaactgtt | ctatgcattt | tacttgtgtt | atctcatttg  | 360 |
| atgctcacaa | caaccttgtg  | aggtaggtat | tattgttatc | atcatcatcc | ccattttaaa  | 420 |
| aggaagaaat | tgangcccca  | agaaaatagg | taccttgccc | aagggtccnc | actgaaaatg  | 480 |
| gtaggttttg | aattgaccna  | aacntctgac | cagattttna | nactaantcc | ggaattttaaa | 540 |
| ttggttngct | cctattttaca | atcctatac  |            |            |             | 569 |

<210> 9724  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 9724

|            |             |             |             |            |             |     |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| gtggaatgtc | atttctcttt  | atagaattat  | aggcaanatt  | tctccaataa | aacttaactt  | 60  |
| aagccagtta | taaaactata  | acttcacatc  | aaaattttaaa | aaagttaaaa | aatgtgtttg  | 120 |
| aatatgtaca | tatcacacag  | aagtgggtga  | atgttcttgc  | anattgtgtt | gctgggtcana | 180 |
| ntccagtcta | ctttccactt  | ttaaaaactgg | aataggctga  | gtcttctgat | cttgctgtan  | 240 |
| attaagttct | gatgcagggtg | ggaaanatga  | tgangcagtt  | gttaacagct | gaatctctgt  | 300 |
| gcatgcttct | tcanattcag  | tttttatcct  | cacacattgg  | gagtcaactt | ctaattctcg  | 360 |
| ctttccagtt | aaaccacagt  | ccatgttana  | attgctttct  | gtgttttgag | tggcttccac  | 420 |
| aacanggtgg | tnctgtttaa  | gccttatatg  | ccangctaaa  | ctgcacccgc | cnaaactgtt  | 480 |
| ttgaactgat | gaatgacttt  | ctaggganga  | aattaaatat  | cattgtcccc | aactgaaatc  | 540 |
| ncacntaaca | aatgcctccc  | cccnct      |             |            |             | 566 |

<210> 9725  
<211> 535  
<212> DNA  
<213> Homo sapiens

<400> 9725

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| gctgcaagtg  | tttattctat | ttagaagtct | acaaatttga  | gcttttaaga | aagattcaca | 60  |
| aaatattcat  | tcaaaaccac | atttttggct | tatcaaattt  | caaatatatt | ttactgtgct | 120 |
| gaacaatata  | ttctaagtct | gtctaaaaca | cagctaaatt  | atttttcttt | atttgtttat | 180 |
| acacattcgg  | taatttctga | aaagcaagat | ttaaaaaatat | ttattaacaa | actaccaat  | 240 |
| tacaatgact  | gttctcccat | acacgcaact | attttctgta  | gctgtatctt | cttacctcat | 300 |
| tccactttta  | ctctgtatac | cgtattgatt | tgtgatgana  | tgatttatta | tganaactct | 360 |
| tagggagttc  | tcatcttcca | tttctcatca | attcaaacag  | caacaccttt | cacaanataa | 420 |
| cattaattcc  | cttggcangg | caaaaaactt | aagtttgggt  | aaaaagcact | cncgtgaaaa | 480 |
| cattttttaaa | tttataggct | ctnttaaatn | ttttccnnga  | aaacgnatga | ctccc      | 535 |

<210> 9726  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 9726  
ggggtagagt tctgtattan tcnaggtaaa tatactgtct tgaggatggg gatgcaaaca 60  
gtgctctgta gtgttgtana aatcggattt tgaaattatc agtacaaaaa taacagcttg 120  
attaaaatta atttgtatct gataattgtt tacaagttat gaaattcagt gatgatttac 180  
aaaatccaaa cagacaatgg atacctaattg ccactgagct gtaaaacaaa agttatgctg 240  
acatctagtg gtaacataca aaaaatctat gctttaccca attttgatga tatcatttct 300  
cttcacaaat ttcactcctt tgttgatata ctttcctgaa ctcttcacca agcagatcaa 360  
tatcatcctc ttttttaaat actccttttag ggagatacct antaagtttg tacatgctct 420  
ttaagaaatt ttagcccttc ctctccata attgcattaa taaatccctg gcgcctttgc 480  
tgcactgcca ctctccaat tcncttnttt gtcncaagg aatntttggn gaaacncctc 540  
catnaatttt tcccaa 556

<210> 9727  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 9727  
ggtgaacgaa attttttatt tacacactgt atctagaagc agatacataa attottatac 60  
aattaatttc caaaaatgtg caagaaatta ctataatttg tttacaaacc aaaacacgta 120  
ttaaaatcaa tggacttttg ataattcatt ctgtggtgtt ctgagtacaa atgggtacaca 180  
cctgatttga aacatacaga aaaagtgtna actaccgcaa tctgaattgc aagtattaat 240  
ttcatggcac tccaacgact atgaaatttc tttcacccaa catgtnaata cttgttacaa 300  
aattctataa gaatttttca taatctctgg atgtagagtt tggatcactt ttcagaaaca 360  
gcaactacac acttcgccat gttatgactg attaataaaa agaattgttn taaaaacccn 420  
tccttacngg attaaaaaag tttttaaaga aancntatnt gtgantggca atgttncccc 480  
ccttttgaaa ttttaaatnt ttttcggaac cngggtttgt tccctattaa aatttccaaa 540  
aaaccgtccn atggnggggg tgggtggttc ctttggnaat tnaaaacccc ctttagnn 598

<210> 9728  
<211> 381  
<212> DNA  
<213> Homo sapiens

<400> 9728  
cccacctatg ccctttccag ggcagtttaa ttggtatcat ttgtaaaagg tcttttccat 60  
caccocccaaa gcctttgcat tccctttcca anaagggtggc tgtttactgg ttttgcccc 120  
atgtgcaaca gtaggccttg gtatgatgct gccataacac tcccatgtga cactccaggt 180  
gacatccaag tgcaagtcta tgttcagctc tggacancan gggggaaggt gaggaaantc 240  
angtctgtaa attgaantcg ggcaggggccc tgnctggctg gaaatgtgtg ggcaaggtga 300  
gcangcccca tgtgcacccc anctccattg cccactgatt tggctnaacc ccantttggt 360  
tntgggtcaaa ttaaangton t 381

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<210> 9729  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 9729  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
nnnnnnnnnn n 551

<210> 9730  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 9730  
gttttaccat taacatttat tgatgggatg gataaatata gattgagaaa catacttigac 60  
agcaagatat caaactgata gccagactat aaaatgtata catccttttt aaattttttg 120  
aattttttta caaagagccc ttactataat ggtcacttac ctctatcat tcacataaca 180  
gcagtagata tcccaggggt agcatccaga gctgagggtc cccaaggaag acagaggcaa 240  
tggcagaata atatgctgag aaaggactct taagaagcaa tacnaagaga acagacnaaa 300  
atctcncncn aaaattgtac ctgagtgcaca aattggtaaa ntgttttact ttnttttttc 360  
ctttcc 366

<210> 9731  
<211> 521  
<212> DNA  
<213> Homo sapiens

<400> 9731  
aagccaaagt ataatttatt ggaaanatac agtttacata acagcanana aggntgatga 60  
accagattca gaaagacaca gggaacactt tagcttctca tcttcaatgt gaataaacct 120  
caatcatttt ctttgcatta tttcaanaa ttcattctaat tagcttagtt tgggtctcat 180  
ccttattaaa aagttaaggg aagtagctga caatctcacc aaagctctat acaattgcan 240  
atganttaat tctctaaaag ttaactgagg tgctaccact agaaaaaaag aaatggaggc 300  
aagacagata aaatcnagan atggctntat tgatgaaaca gtatgtctta aattttccta 360  
tgctccnaaa tagggaaatt aacagctacc ttaaattaga aataactaag tgaacagttt 420  
cctcnggtnc atttagtgaa gcatttgita gantcctttc tcaatttcct cccattatt 480  
gttctattcc aattctcncc tcnaaaaaaa nncactttta a 521

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<210> 9732  
<211> 584  
<212> DNA  
<213> Homo sapiens

<400> 9732  
cttttaagc agaatgtct ttattgtttg aagcatgaca aaataaaatt gataggacat 60  
ttcattttctt acttagtctt ctcaatgggg ttataaaaat acaatgccac ttagtttttg 120  
taagctcttg aaaatgtcca gaagctcaca cttagtatga tattaaaagg cacttataac 180  
acacaataag atacttagaa acccatctca tagatacaat tgaaatttct ttgagaaaaa 240  
tttctaaata tagaaataaa taggacggca ctatttcttc ttttccaaaa cacagaatag 300  
cattttccc atgttaccta tacacaccat aaatgtggac acctcctccc atttttgttc 360  
ttgatacagg ttgataatca agctgaaatt aatttgcttg cttttctcna tttaatctca 420  
atttggttta aaataaagca aaattcctaa tttgttttnc aggatcttta aaatacccg 480  
cttatttcca ttttggtttt aaatcccaat cccttaatta ggaaaataag angccnaant 540  
ttaaaaattc ttctattttac tgcccaatcc cccaagcaca atnt 584

<210> 9733  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 9733  
gaaactggaa taagtgttta ttttctatta ataaaaatga attgtgacaa aagtggactc 60  
tggtctcccc tccccctac ccctctggga taaaaatttt ccagcattgc caggagcttt 120  
caggtacaca ttaaagaata aaatgaagtt aagcagctgg agtataggat agtatattgat 180  
tttcaagatc acccaaagct gcactatcgt cccaaagctg accaagtaga ataaaaagaa 240  
aaaaaaaaaa aacaacccat ggcgaaanat anacatttgc ttgatctgct ggctcagggc 300  
caaatgttta atttgcttct ccaaagtcac tcatcttcaa aantctgatt ctgggaaact 360  
gatgccncta ccctaaaacc ccnctgacca tnttattgtg catcagttnc cncctgtcca 420  
ntaagcattt atcc 434

<210> 9734  
<211> 519  
<212> DNA  
<213> Homo sapiens

<400> 9734  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 519

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<210> 9735  
<211> 353  
<212> DNA  
<213> Homo sapiens

<400> 9735  
aagcatttcc ttcccttggc ataaggaatc ccatccttgg aatcagccat ttttccaaag 60  
agccaggggt cctttcagtg cgaatgttgt aagaaaaacc aagatctgag tcctagggtgc 120  
tactaagtct tagttacatt ttgggtgact gcgcttaaca caccattact ttataaaaata 180  
caaacaagag agatagttca aataaaatct aaactcataa ttacttggtg gtaagacgac 240  
tcatacgctt taaactctcc tcaaatatat tttactgcca gttgatagaa naacctggat 300  
ccccaccca attcctaatt cctaaatttt nccccctccc cctnancnn gct 353

<210> 9736  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 9736  
attttacaaa tccaatattt attttatctt gtatgtacaa aaagtaaact ccaagtgaac 60  
atcaaatcaa atctaatact tttggccaca tgactgggtg ttctttatct catagttaca 120  
atgaatcata taaactgtag actgccacta ccacgatact tctgtgacac agaaggaaatg 180  
tcctatttgc ctatctatct gaggaatgtt aaatagagaa aaatagatta taaaacaacc 240  
tggagggtcac aggattctga nataatccct ctgttaaaaa acatctgaac agcaaatgtc 300  
caatctgtaa taaaatagtt aaagggtccaa gtcaagtcca cttctacttg gctggcccag 360  
cacaagaaat ctaacagcac tttgtaatca ttttgctttt ctaattttcc cggaagacat 420  
gggccattga catataagga aaaaaaacna aaacaaaaaa cgantaagtt agttgtgtna 480  
tccnaaccng tganttccaa agaaaanttg ccggg 515

<210> 9737  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 9737  
ataaaacaat ttccatgttt accaaatgca acacatttcc ttttctatta agaanaaaaa 60  
gccggttgca acccactaaa gtgatttgat ggccaaagaa taggtagcaa ttgcatttt 120  
gaaaaatact tatttaaata gaaatttgtc agacatgtag aaaccagtca cattgtagct 180  
ctggcagatt tctgcaggag atccagtgc acatttcatg gtcctagaaa tggttttcct 240  
tactctttga atctttcacg gttgatgagg tgggtgttgt gatgaaggcc aagggaanan 300  
agtggagaaa atgggtgatgg gagganttta ggaggccaag tcttaattct gctcaggcag 360  
aaaacagttg aantgtctgt gatgcattgt ccanacacga atgagacacn nacctggtc 420  
tatggcggct tataatccaa ggtgttgctt cntattaac ngganc 466

<210> 9738  
<211> 520  
<212> DNA  
<213> Homo sapiens

<400> 9738

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaagtttggg | gatgttttaa | tgaccaagt  | tagggaaaag | gatgaggaga | gatcatgctg | 60  |
| ttagcaggct | ctggggatcc | tatggtcaca | tggaagagg  | gattcctcaa | caatgagggg | 120 |
| tgtggtcatc | tccataaatt | gcagacagac | attgaggtca | gggagacatc | ttcccacact | 180 |
| tgcaaatct  | tcatanaaca | tggtggaagt | ggatggacaa | agatgtatgg | tggtggccat | 240 |
| ttattattac | cttgggggaa | atgccagatg | anctgatact | gatcacgggc | agattttgga | 300 |
| aacgancgtg | ggatancggg | gcaaccanan | ggtgctctgg | tattcattgt | ctancaccaa | 360 |
| gatgctcana | tcaaattgtt | tgccgtcctt | gaaanaacac | attgtnggca | tctcccctca | 420 |
| cacttccagg | ccccacacac | ntggctgtcn | atnaccaaac | aatggggcaa | atnccccccc | 480 |
| aaaatggaaa | ggcaaattct | gaatttcn   | ttccccccn  |            |            | 520 |

<210> 9739

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9739

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gcactactta | ccagaggttt | ttatttggcc | tctaattctc | atcccagcac | agcccagagaa | 60  |
| ttcagcaaat | gtctttaggc | aagtccaaca | aagtatcgag | gtcagtttct | cacttctctt  | 120 |
| tccttataaa | aatcaagcct | ctatgacttt | ttgtctttcc | agtgtgagat | ggcaaaaaggc | 180 |
| ttcattgggt | tctctgcctc | ttagtagcaa | tcctcttcct | gatccctttg | tttgaattct  | 240 |
| tcttttattg | ctctatacct | agaattttaa | aatgtcctgt | cttttctctc | cagtaacaga  | 300 |
| cctgacctgt | tgcagggtgg | ggagtctgcc | actganaaac | agcaagaagg | tactgggttc  | 360 |
| ctccccctt  | tttggcagtc | tgggctggct | acccttcccc | ccatcttggc | anaaaaaatgg | 420 |
| tttctgacct | tnctctggga | tgggaaatta | ggaatnaaga | aaaggaaaag | cccacttttt  | 480 |
| tgctactgcc | aaaattgcat | tgcnncnctt | ggantntn   |            |             | 518 |

<210> 9740

<211> 556

<212> DNA

<213> Homo sapiens

<400> 9740

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| agtgtgtant  | acattttattg | aagantctct | ccctgtataa  | gcccattgta | aangtctcag  | 60  |
| cactaacaca  | agantcnaaa  | aggaagccca | catctctctt  | tcatacagga | tttgctgcaa  | 120 |
| tactatattc  | ttccaaccag  | tgagtaatct | caaagtgtga  | tgggtgagtt | ttacatantc  | 180 |
| ttctttgttt  | cgaatccaat  | tggctgattt | gttaccattc  | tagaggctga | actgtatgaa  | 240 |
| gacctcaact  | accattcaca  | aggtgcagtt | aananaactt  | tggacagttc | acagtgtcaa  | 300 |
| caaagtctnc  | aggctccgac  | caagtataac | cacatccttt  | ggaaatcctt | ccattttttgc | 360 |
| aattttcaaaa | catcctaact  | tgctgtnaaa | ttcccanaat  | tcctttatcc | tccgggtcccc | 420 |
| ctccccaaaa  | aaccnccccg  | ggaaccttta | ccctccattn  | aaaanaggaa | ggcaaccttn  | 480 |
| cttncttttg  | gccncccttg  | ggtcagttac | tttttgggtga | atntccccct | tttccaaaaa  | 540 |
| gggaatttnc  | cgggaa      |            |             |            |             | 556 |

<210> 9741

<211> 487

<212> DNA

<213> Homo sapiens

<400> 9741

|            |             |             |            |             |             |     |
|------------|-------------|-------------|------------|-------------|-------------|-----|
| gcaagttaaa | ttacatctat  | tatataaaga  | gatcctataa | cttgatacga  | aaaacaaagc  | 60  |
| aactccaaca | gataacagaa  | gggcaaaaagg | acaggaacat | ctgatcaaag  | aaacacagct  | 120 |
| accgatagca | cacaaatatt  | caacctcatt  | aataatcaaa | ggattaggat  | gcacttcttg  | 180 |
| cttattcaat | aaagttaata  | atttctaatt  | tttctacttt | tcaaattgtac | tcaaattgtgc | 240 |
| tatttttagt | aataaaaaaac | tgagtaatta  | aaaaaacata | gaaagtatga  | aaatttctgc  | 300 |
| caatgcagaa | atcataaaca  | gcattaaaat  | gaatcaacac | ttgtatgggc  | agtaagggtc  | 360 |
| agaccctaa  | aanccaattc  | attttgcctt  | ggttcctgan | ttttattatg  | gggattgtcn  | 420 |
| ataaaggana | aagttgttcc  | tgattttacat | gctgacaatc | ttccangtat  | anggggggtt  | 480 |
| ttntttt    |             |             |            |             |             | 487 |

<210> 9742

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9742

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| gttttttttg | gtcatactac | atttcacttt | attattatta | acatttatca  | tacacggggt  | 60  |
| actattccaa | tctttcatgc | agacaaaaat | aaacaatata | aaatacataa  | tgcactttga  | 120 |
| taattttaac | catacataaa | atatgggagt | aatgggaagc | tatgtttacat | ggatatttta  | 180 |
| caaaggaaaa | aaagatgact | tttataataa | cacatccaga | tgaaatttat  | cattaaaattt | 240 |
| tggatttcat | atgatgttaa | gtatggatat | attcaaaaca | attactattt  | atagaaccaa  | 300 |
| tttgatattt | tgatcattta | aataatgaat | actatgtnaa | tgagtactta  | taaaaatatt  | 360 |
| tttaggcaaa | aagctctgtt | ctactcattt | acttgccagt | tacaaaaata  | tatattcntc  | 420 |
| tgaaactcna | ataaatttgc | ttgangnntt | agatattcca | attccaatgt  | ttattttcna  | 480 |
| aagcgtccta | ncca       |            |            |             |             | 494 |

<210> 9743

<211> 534

<212> DNA

<213> Homo sapiens

<400> 9743

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| anacagagtc  | tccctctgtt | gcctaggctg | gagtgtantg | gtgcaatctc | agctcactgc  | 60  |
| aacctccacc  | tcccaggttc | aagcaattct | cgtgcctcag | cctcccaagt | agctaggaat  | 120 |
| acaggatatgc | accaccacac | ccagctaatt | tttgtgtttt | tagtaaaana | cagggtttca  | 180 |
| ccatattggc  | caggctgggt | ttgagctcct | gacctcaagt | ggtccaccgc | ccttggcctc  | 240 |
| ccaaagtgc   | ggaattataa | gcatgagcca | cgctaccag  | ccacccttag | gaaacttta   | 300 |
| tgccacaaat  | gtattatata | tctgtttatg | tactatggcc | ctttgaagg  | tcaaaaaacca | 360 |
| ttgttatatt  | caagattttt | tttcacctt  | caagantcaa | catttgccct | ccttgcggtg  | 420 |
| tatctcccat  | tgaaaaatgc | atgctgtanc | gcatgttaca | atatccanan | tatattttta  | 480 |
| ggtaaaaaca  | ccaagggtga | aaaanantat | ttacantgcg | ctaacacttt | tctn        | 534 |

<210> 9744

<211> 530

<212> DNA

09629459.072300

<213> Homo sapiens

<400> 9744

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cataaataag | tattataact | ttattaaaat | gaaaagacaa | tattcaaaat | aatgcaacaa | 60  |
| aatgaataaa | atcctttgtc | caatactgta | cacataatgc | agaaatcagt | gcatttttct | 120 |
| taagcatgtt | ttaacottca | tttagttcat | actaaaatat | aataagcttt | aaatagctca | 180 |
| aataatattc | agcagtttaa | actgtaaaca | gcttgtttaa | ctgttaanag | aacattgcag | 240 |
| taatgtacct | ctgttagtga | gcaccttctc | ttctgtgctt | atctcttcaa | gataaataca | 300 |
| tggaaggatg | tgaaaatcgg | aacaccaact | atgtgtctca | ctgcatctaa | gtgaagcacc | 360 |
| acagctgtga | gagttttcna | agcaaaaana | ngctgatgtg | acctccggaa | ttcanacata | 420 |
| ctgagctatg | ggtcgnaaat | gttttactta | aaaagccaac | aatcccccg  | aaatctgaat | 480 |
| gggaacngcc | nccnngggcn | gcctgtgttg | tttgtttatt | aaaaccncn  |            | 530 |

<210> 9745

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9745

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ccaaatacaa  | ctttggaatt | agtcacaaaa | aatcaacata | tattctcaga | aattgtacca | 60  |
| tttccttttg  | tctacaatcc | acgctatagg | aggttcaata | taatattaaa | taatgtacca | 120 |
| tttacccctaa | aagtaggttc | tagaaaactg | actattagga | ttgaataaca | aggctttaat | 180 |
| ggctcaattt  | tcttatgatt | atacaaacat | ataaatcttg | aaaaggtaac | gccatttagt | 240 |
| aaaatccata  | aaaataacag | ttttgccaca | gtgcaaanaa | aagttcattc | agtttgattc | 300 |
| cccatgccct  | cgacaagcag | ctttctgatt | anagctggaa | aacacaggct | gggtgcagtg | 360 |
| gcnaccccg   | antcccanct | actggggagg | ctgaagtgga | aggatcactt | naccaggaa  | 420 |
| tttccgaaca  | tctgggcaca | tacaaaacc  | ctgtctcttt | tttaacttgg | aanaataaa  | 480 |
| ntctntactt  | cntnccttga | aacntgaatt | ttctacgaaa | atttgtnaaa | attactttta | 540 |
| aat         |            |            |            |            |            | 543 |

<210> 9746

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9746

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnn     |            |            |            |            |            | 545 |

<210> 9747

<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 9747

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gttttttgag  | acagtctcgc | tttgtcacc  | aggctggagt | gcagtggcac | aaccttggct | 60  |
| cactgcaacc  | tccgcctcct | gggttcaagt | gattctcgtg | cctcccaggt | agctgggatt | 120 |
| acaggtgtgc  | accaccatgc | ccagctaatt | tttatatttt | tagtaaanat | ggggttttgc | 180 |
| catgttggcc  | aaactggttt | agaactcctg | gcctcaaatt | gtctgcccac | cttggcatcc | 240 |
| caaaatgctg  | ggattacagg | cataagccac | cgcgccagc  | caacacttaa | ctgatttctt | 300 |
| atttcctaatt | aaaaaggatc | tgtttggtat | cctataatac | tgatgcacct | tgatttgctc | 360 |
| cgttcaccca  | nnaattcttc | tgaaaacnct | gttggtcctg | tggtggctaa | tgttccccc  | 420 |
| aatggaaac   | ccctntggcc | anggaaaatt | taaattaaaa | ccnntaaaat | ttaaaaaatt | 480 |
| ccttaaattcc | gnaaccaatn | acaccaaant | tccttttt   |            |            | 518 |

<210> 9748  
<211> 513  
<212> DNA  
<213> Homo sapiens

<400> 9748

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| agacacaaac | atctagttta  | ttttttctga | ctgtaaccaa  | agtcagcaaa | agaaacaaca  | 60  |
| aaacttcagt | gccctaaaaa  | tcctcctgga | ttcnaatgaca | acacatcaat | ggccggggcac | 120 |
| agggttggat | tcctttttatg | aaatcacctt | ataatctctc  | atcatcccag | gacagtgcct  | 180 |
| tttgggactg | catgaatctt  | taatagctac | accacatttt  | ctcatccttt | aagttatgac  | 240 |
| agacaggtta | tctctctcca  | agagcatcag | gttagatgct  | ctttcactct | tacaaactgt  | 300 |
| caggtggagg | gagaatcacg  | acatcattcn | taaataactg  | tggantctgg | gatgctggct  | 360 |
| gaaagcatct | ccangaaaga  | ctggagggcg | antttgctaa  | agggtgctc  | actgctcntt  | 420 |
| tactgcatg  | ccccttttct  | ccctttgggt | nggaatttna  | angaccttt  | ttccccaaaa  | 480 |
| ttaaaacccc | ccnttaaaac  | canccttgcc | ctt         |            |             | 513 |

<210> 9749  
<211> 505  
<212> DNA  
<213> Homo sapiens

<400> 9749

|            |             |            |            |             |             |     |
|------------|-------------|------------|------------|-------------|-------------|-----|
| gagtattcca | gcattattta  | tttgatcaga | ntaaaataca | cttcccatca  | ctacaaaactg | 60  |
| agcacaacta | cagttgtcta  | cacattcata | tttttgacgt | gccaacattt  | tgcatcttac  | 120 |
| atgaaacatt | tggttttaaac | aaaatcttaa | gaagtctcta | ttttgtttcc  | catcttccct  | 180 |
| cctgtcctct | cccatcctcc  | aaagatgttt | tatattaact | gctatgagat  | ttatttgccg  | 240 |
| gtcacgtnat | acggaggaca  | gcagggaaca | acacaagatt | taccatgcct  | aggggatgaa  | 300 |
| tggcaaacc  | aactttggct  | aatgtcattg | agaacaactt | ggaagcgtga  | gcagagatat  | 360 |
| ctcatgaagt | ggcagtgaac  | ctacatttcc | atttatcaga | agcnaacatg  | gaaggttaca  | 420 |
| tacatgatga | antattggaa  | gttaaagact | tnagacacca | aatccctaatt | ttnaaagaac  | 480 |
| atgccnctg  | natttcaact  | tgona      |            |             |             | 505 |

<210> 9750

<211> 608  
<212> DNA  
<213> Homo sapiens

<400> 9750

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| gtananatgg  | gtcttgctgt | gttgcccang  | ctggctcttta | acgtctangn | tcaagctcaa | 60  |
| gctcttgccct | tgccctccca | aagtgcctggg | attacagacg  | tgantccac  | gcctggccgg | 120 |
| taattttctca | ttgtgaattg | attgggtccc  | tgtaagtcca  | gancctgtcc | tgagtccttc | 180 |
| atctgaatga  | gggtgaaaag | actgagtttt  | ctgtcccggg  | tgacaaggac | agaatctgtc | 240 |
| ttgtgaaaca  | accagaagaa | aattccccta  | agaaagccgt  | ctagcggggc | agtggacaca | 300 |
| acactattct  | atatcanaca | attaaatgtg  | aggatgaan   | ggtgaacccc | aactggtgcg | 360 |
| taataacact  | taggattaaa | atgaaaatat  | gcaagttcca  | gtgactttca | aatctggcaa | 420 |
| caaatcctaa  | gattccccac | ccctcctgca  | acaatgattc  | naaaatacca | tatttttttc | 480 |
| ctctccctct  | cctccatcca | taattaccan  | ctgaatgttc  | cccatnttct | ccataaaacc | 540 |
| cacacccaac  | atcacccctg | gnccaatntt  | tanaaaaatt  | tggcttcogg | tcccccttg  | 600 |
| ccctttaa    |            |             |             |            |            | 608 |

<210> 9751  
<211> 503  
<212> DNA  
<213> Homo sapiens

<400> 9751

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| gtaganccat | tctatccatc | cagctatgaa | atcttctcta  | aaagcctctc  | ctctggtgtc  | 60  |
| ccattgcact | tttatctgta | ctgacttggg | ctacttgtca  | gttgtatatt  | tgccctgtatt | 120 |
| gtctcccata | ctgaaacata | aaatccccgt | ggacaagaaa  | catgtcttac  | tcatcttagt  | 180 |
| atttctagca | cctagcacag | tactaggcac | acagtcnata  | cctaataaat  | atgccgaata  | 240 |
| aatgaaagca | cattacggaa | tggaaggtag | aaagccacag  | ttggacattt  | tccataatag  | 300 |
| tgtattttca | acccttacag | aaatagactt | gcagtgggaat | gtctactatt  | tagcagctga  | 360 |
| attcagactt | ggggaanagc | ccanaaactg | ctacacttca  | cagatgggtca | tttggaanaan | 420 |
| aaaattaatg | canaaanctt | gtgtactatt | taataatanc  | tcaggaatag  | gtccaaataa  | 480 |
| caaatccnct | gatnccccga | naa        |             |             |             | 503 |

<210> 9752  
<211> 604  
<212> DNA  
<213> Homo sapiens

<400> 9752

|             |             |             |             |            |            |     |
|-------------|-------------|-------------|-------------|------------|------------|-----|
| cttagtatat  | acttttaatgc | atgtttatgt  | gcaatcttgt  | tagtgggtat | acaagtttgt | 60  |
| gaanaacttc  | tcattttcaat | aggcagttaa  | tgtaatgcat  | taaaagcctg | ggaatttggg | 120 |
| gctatatttt  | tcctttctga  | ctcaataatc  | ttcaaanaat  | tcataggaaa | gtcagtactt | 180 |
| gcanacaagt  | ggtttagcttg | gctaaaaatgt | acaaaaacacc | cagaacccac | aaaacactca | 240 |
| gaggttttag  | aaaatgtttt  | aatgcttaaa  | angcaggatc  | aantgaanag | gttacanaaa | 300 |
| tcagtgtctc  | tggctgggca  | gtcaaaaaan  | caggctcaaa  | ttctgtgact | cactnctctg | 360 |
| tgtctcgggt  | ggaaatnaat  | gggtatcctg  | gttcccacct  | tcccacacgc | tgtgatactt | 420 |
| caaaactcctt | gggtgaagg   | ncnctttotca | cccaaaatct  | tgattgtgaa | cataacaaan | 480 |
| aaaacatccn  | cctccacaaa  | aaaaactcct  | taatgacntt  | tgatccntga | ataaatattc | 540 |

09629469.072300

ntttaaaaaa atnttttggg gggatcttaa aattttggaa gtntttcccc ccggaaaaat 600  
ggtt 604

<210> 9753

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9753

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggcanagacc | gggtctagct | atgttgccca | ggatggtctc  | aaactcctgg | cctcaagcaa | 60  |
| gtctcccagc | tgggcctccc | aaggcactgg | gactacagtc  | atgancaacc | tctcctagcc | 120 |
| ctgttttctt | gtaataaagt | aaatgcagtg | ttcatttttag | taacaaaaca | ggtcttcact | 180 |
| gggagggaga | aatgaggaaa | tttgaccccg | cgtggctgan  | gcctggaatg | agctccatgg | 240 |
| gcaggctcca | ggaatgatgt | aattttgcct | cctctcaagg  | ctggcctcaa | ggaggcctga | 300 |
| ttccagccct | ctttgtctgg | ggctgccctg | aaacctgtaa  | aaatccttct | gaccanattc | 360 |
| tccagacact | gcaaattctc | acccagggtg | ctcaaaatcc  | tgnaaaaaac | tcaggtttga | 420 |
| ttcaaacggg | ctaaatntgg | gttctgcttg | accactttct  | gtntttcatt | tggcaattcn | 480 |
| cttcccctct | ctnaaccttt | ttcatttctg | cctatctaaa  | atcaaaatcc | cncctnatt  | 540 |
| tccatttttn | tggtnaaaat | ccatggaatt | aatttttcta  | aangntccc  |            | 589 |

<210> 9754

<211> 538

<212> DNA

<213> Homo sapiens

<400> 9754

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| gtttgggcaa | tagaacactt | tctggcattc  | taggtacttc  | aatatgtgtc  | cttcaatcac | 60  |
| cctgaagtga | aagcagtcct | ggcaacttaa  | tatttgccctc | cagatgggtc  | tctagtcagt | 120 |
| tcatgctgaa | acacagctct | gccacccaca  | acttgagct   | gaccagcccc  | caggggaaca | 180 |
| tggaananga | caggacacac | ctgttctana  | aaaccaggtc  | ctcagtaaac  | actgctggga | 240 |
| atgaaagcct | aaaattatac | agtactccat  | tcctgtgaac  | gggccaaaagg | atgacgggca | 300 |
| acacagggga | aacctgtttt | cacatttggg  | catctcctca  | catttcgtnt  | ganctggang | 360 |
| aaaccgtgtn | acacaanggc | ttgctttgcc  | cctgnaaact  | ggccctaaca  | tattatctcc | 420 |
| aggcaaaaat | gccatgctca | ctgcaaaacta | tggaaatgan  | gtcaaaacaa  | aatcaantta | 480 |
| ncccttgatg | ggaaaaantt | ggncccaaaa  | acccatttct  | aaaaanggtc  | ccctgnnt   | 538 |

<210> 9755

<211> 499

<212> DNA

<213> Homo sapiens

<400> 9755

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| cagaaaataa | aatagtttta | ttcatagcct  | angtaaagtt  | caaaaattta | tattgcactt | 60  |
| tggcggttat | gctgatcctg | tgtttggatg  | gggtcacaaat | aacanggaaa | gcogangcct | 120 |
| cctacaaaaa | gtcctttgtg | gcaaatcaact | atganangaa  | actccatcaa | aagtcccaat | 180 |
| tgttcatttc | atttctactg | tgctacggaa  | gcctggtttt  | gttttaaggg | ctaacgtcct | 240 |
| aggttttaag | caattttttt | tgagcttttg  | ctaccagct   | aacaagcagt | aaaataatca | 300 |
| actcaaaact | acgtctgatg | ccaaagctct  | aactctaaaa  | ctcaatatan | antttttttt | 360 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgtgacacc | tcccctcgtg | tctcccctaa | ctgcgactcg | cattaactcg | ctgctggttc | 420 |
| ccanctggan | ancacaaatt | gcacctgctc | cnaaacccaa | cggggctcaa | tntctccgca | 480 |
| ctcaacctcn | gctgcctnt  |            |            |            |            | 499 |

<210> 9756

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9756

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gtagaanag  | aatactttat | tttgaaataa  | aatacaaatg | tgcaaaggaa | attagctcct  | 60  |
| cctgcccccc | ctttgaacaa | tgagtcaata  | naatgtgaga | ctgggtagat | tancagataa  | 120 |
| taggcaaagg | tctagctttt | cagtggcaac  | ttgaagaaac | caaagatgaa | tgatgctaaa  | 180 |
| ggaatgaccc | tttggtacct | gttttaaagt  | acttctggcc | cccttctttt | ataaaccccc  | 240 |
| aggagcccag | caccacacct | tgttacccta  | caatgatcac | tcacgctcca | cgatgtcact  | 300 |
| aatgtaataa | ctgaanatat | gggccagttt  | gtccatgtca | cgttccgact | tgtangtcag  | 360 |
| ggtgaactgt | ccattaatgc | tgtaaaccct  | gaccaacaaa | gcagaaatta | cnatgttaac  | 420 |
| tccaaatcct | aaactttttg | gcccccttct  | ccccacacat | caggccagtg | taaangaaac  | 480 |
| anatccttca | agctgagtaa | tccttttatcc | attaacatgg | tgttacttaa | aaactactaa  | 540 |
| gggccagttt | ggttgctgct | gccccctggga | aaccaaagga | caccncccg  | tcccaaaaact | 600 |
| gganann    |            |             |            |            |             | 607 |

<210> 9757

<211> 509

<212> DNA

<213> Homo sapiens

<400> 9757

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| caactaaaat | ggtttttattg | agatgttttg | gttggaggan | atactttttc | tggcaacatt | 60  |
| tctgactcaa | ggtccctctg  | ggccccagct | cttcccatga | nacagtcaca | acactgttta | 120 |
| atcagctctg | canaggccag  | ccctggagca | aangaggatt | cagggccatg | gaggggacct | 180 |
| actctgccct | gttctggtca  | ctacttctct | anactctcat | gcactattgt | ctgtancaag | 240 |
| tgacatttcc | actggaanca  | cataaagatg | gcgacagcct | catttcttcc | tgagtgaact | 300 |
| gaancccnna | aaaaggggag  | gtcccnccaa | aggggaaaaa | accagggccc | cacccaacaa | 360 |
| ggatgctgaa | ataaactaca  | tntnntgctt | tctaggaaac | aacacaaaaa | tctctactct | 420 |
| gaaatccaaa | atnttaaata  | tgggcncccc | ctctataatt | taactgtaca | accttatcan | 480 |
| tcatttaaaa | ccccccnnc   | nacaatanc  |            |            |            | 509 |

<210> 9758

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9758

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| aagtgagcag | atatttttaat | atgcttttatg | ttaataggat | tctgataatt | ttagctttan | 60  |
| ttaatgcaac | acacttccct  | gggtncnaacc | atgacctctc | tgagaactgg | aaaatactgc | 120 |
| ataatttnaa | aaatcagagt  | gtnatgacat  | tcccngacaa | cttcaaataa | gttatgtgag | 180 |
| gaggatgaac | tatgggtagt  | cnagaccacc  | agtcataatt | gtctanccgt | agaaacagtg | 240 |

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|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| actacttnna | gatctgcaaa | gatcanagca | caactggctg  | aangtgcanc | attctataca | 300 |
| tgtcctcatg | gagcttcaca | aaggttatna | gatgaccac   | tcactctggg | tggctgtggc | 360 |
| catngacaga | caccataaaa | tcctgngatg | tgggtccantn | ctgaactgng | ggggcgngtc | 420 |
| tgaacttgcn | ttaa       |            |             |            |            | 434 |

<210> 9759

<211> 396

<212> DNA

<213> Homo sapiens

<400> 9759

|            |             |            |            |             |             |     |
|------------|-------------|------------|------------|-------------|-------------|-----|
| cccaggtaca | acagcaggtt  | cttttccaat | tcctcaaanc | gctgcatggg  | gtggggggcan | 60  |
| aaacanaaaa | aaatnttaac  | attgggttcc | accccttgga | gctcaaggga  | aaacccttac  | 120 |
| ccaaataggg | actaactgga  | ggggtnaag  | ggaacaaggt | gaaaggtatg  | ggtcctgggtg | 180 |
| aaacaaaanc | agggggggcct | gaaaacacaa | aacaaggtgg | gtttggagggg | ancacaccan  | 240 |
| ggttcncgaa | aggaaattgg  | ggacatttcc | tattccagtg | catgtcccct  | taaataaaact | 300 |
| gggttcagga | ccnttntgga  | agganaaccc | nnggacaaaa | aacaaanoga  | gcacccccnc  | 360 |
| cccaggccaa | ccccatcctc  | ttttaccaat | tacaac     |             |             | 396 |

<210> 9760

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9760

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| aattctggaa | gatttttaat | caatttaaca | ctattataca | ttagaggaaa  | aaattttgca  | 60  |
| caaacactcc | ctcacaaagc | cagtagtctt | atatttacat | agcatgatta  | tggtaattta  | 120 |
| aaatgttaat | ctatgataca | atgttacttc | agaaaacata | taataaaaata | tagttgtctt  | 180 |
| atagccatgc | tcccattttt | gatgaaagct | agttagcaaa | tcctaattgtt | agtttaatac  | 240 |
| tttaaaaatg | cataacagat | attcagtcag | cattataaaa | cctttaagac  | agaaggntgt  | 300 |
| caagcagaat | agacagaggg | ctcatcatca | cttatgtctg | aatcttcatc  | tactccttca  | 360 |
| ataaccgatt | tcttcccttt | acaacaggat | acaattaatc | caatcaaaaa  | taccccaaga  | 420 |
| aagggccagt | taccaaaata | gtnagcacc  | tgaagaaccc | aaacttnttt  | aagggaatagg | 480 |
| tttttcggg  | taacattacc | tggnntttcg | ggaaatttgn | ntcanttttt  | tttgggaaaa  | 540 |
| aaagggttna | atgcctttta | aattncnaaa | tttttt     |             |             | 576 |

<210> 9761

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9761

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| acatctttat | tgatgttaaa  | caaatctttt | acatctttat | ctatataatt | cacgcactat | 60  |
| aaaattcacc | cattttaagat | gaaccattca | atgccattca | atgcttttta | gtatattcac | 120 |
| gcagttgtac | atccatcatc  | acatctaagt | ttagaacact | ttcattgccc | ccagaataaa | 180 |
| ccgtgttcct | gttagcagcc  | actttccatt | cctccctccc | gccagcctgc | agcaactact | 240 |
| aatctgcttt | ctgtctggaa  | atggaatcac | acaaagcctt | ttatgtctgg | cntcttcatt | 300 |
| actttttagg | gccatataat  | attccattgt | tatagctatg | ccanatttgg | tttatctatt | 360 |

008220.69462960

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cattancatga | aggggcattn | gggctatncc | catttctcaa | ttattataaa | taaggctgct | 420 |
| atnaacattg  | tgtgcaantt | tttctgggga | nacatntttt | catttgcctg | ggggtaaana | 480 |
| cccagnaatt  | gtancc     |            |            |            |            | 496 |

<210> 9762

<211> 496

<212> DNA

<213> Homo sapiens

<400> 9762

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| ctctaattctt | gangtccact | ttatgtcatt | aaagttgatc | ttcaatctct | gatatccttt  | 60  |
| cttctgcttg  | atcgantcag | ctattgatac | ttctgtatgc | ttcacgaaag | tctcgtgctg  | 120 |
| tgtttttcag  | ctccatcaga | tcatttatgt | tcttctctaa | agtggttatt | ctagtttagca | 180 |
| attcctccag  | ccttttttca | tttttagctt | ccttgcatgg | ggttagaaca | tgctccttta  | 240 |
| gctcananga  | ntttgttatt | accacacctc | tgaagcctcc | ttctgtaaat | tcgtcaaact  | 300 |
| cattctccat  | ccagttttgt | tctcttgctg | gcaaggantt | gtgatccttt | gcagganaaa  | 360 |
| aagtgttctg  | gttttttgaa | ttttcacctt | tttgactggg | tttttctca  | tcttcatgga  | 420 |
| tttatctacc  | tttggtcttt | gangcnggtg | aacctccgaa | tgggttttng | tgttggaaat  | 480 |
| tcctnngtt   | naaatt     |            |            |            |             | 496 |

<210> 9763

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9763

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnn       |            |            | 514 |

<210> 9764

<211> 456

<212> DNA

<213> Homo sapiens

<400> 9764

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| aaaggcatga | ttgatagttt | atttaataca  | tataacattt | aaaacttttg | ttccnchnaag | 60  |
| gaaacnaacn | aaacatagcn | aaaggataaa  | acgtcccncn | agaaaaacga | ntccccactta | 120 |
| tatgatgaca | aagatgtgta | gaatcatgtc  | aactaccgct | acaaatcagt | aagcaaaaaag | 180 |
| gtnaaacaat | gaaaatttaa | gaaaaaaaaca | atttattgaa | gaaacacaaa | tagccccnaa  | 240 |
| acataccaga | agatgttaaa | cctcactaat  | gattaaatcn | atgccnaata | aaatgatact  | 300 |
| gaggtnagat | ttgcaagtna | aactaaagtt  | actaacaaaa | tccaatgtta | gtgaaactgt  | 360 |

09629469.072300

gagaatatat gcctttgttc acattattgg caaaagtncn aatttggggt ctgaaaggaa 420  
atttaaatat gttcccnnta tgttcncnng ttccct 456

<210> 9765

<211> 476

<212> DNA

<213> Homo sapiens

<400> 9765

gttttntnaa gtgaaataat agattttattc caagagaaat aaaatgtcct gggtaaagct 60  
tctgtnataa tactatttct gatactgtat ctctgaaaaa tggctaacta gtcccttatc 120  
natacattta aggcattcaat aataggtncc actgaggaca tacattgtga agaaaganaa 180  
gaataagtcc aataactaaaa catacttattc atgacaactc naggtgacat gaatatttaa 240  
tgaaaattta gaataataca acatatgact ctcattctgt ggacataaaa ggaaaaatac 300  
agtaattcat ttctactcatt acatttttaca aaatcagccc aatgaagcag tattttttta 360  
taaaaacagt aattttaattt caaacaaaata tattaccatc ccaatccctt ancctgggta 420  
aatntttccn aatgggcaaa acntacttta ctgaaattca ntaccanncc atccca 476

<210> 9766

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9766

ccaattcaga agaactttta tgcatatncc atcattgccca ctatnataga gatagaagat 60  
accttaagaa aattcngttt gtntccataa aacagatcna cncagaacaa ggaaacccat 120  
agatatttgt naatgagatc ttctcttttg ctactgtgta tatatatcc tttatattca 180  
tacaaactcn caacacatga catttcatat ttcatatgcc actgagaaga ggtgtctgt 240  
tncagaacat aggaagaaga aaaaagcntg agaacatctg cttagttaga atctgatgag 300  
gagagacgtg agagctattg ttctctcttc tgctcaggcc tatcgagagg caactgcagt 360  
ttttgctaatt tgttctctct gaggaattct gctcctactg ctatgggtcat ctccnangtt 420  
gggctgtgaga acancctggt ccccttgtaa taaattttaa anaacattng gggggattga 480  
atatgatntg cc 492

<210> 9767

<211> 463

<212> DNA

<213> Homo sapiens

<400> 9767

gttttttgtt ttgttttttt tttgtttgtt tttttttgca gcagacaata tcattcagct 60  
tgtgctcagt ttccctataa gggtaagaaa agtttccatc aggtagccac ttgtttttat 120  
actgaaagac taatctgctc caaaatgctc ccaagtagaa atgacaggac tcaaaatccc 180  
tttctaaagc ccaacagcta actttttctg actaatctct agcttcattg aaactggcta 240  
ccaagattgc atttcaggct aacaattggc ttcttagtta aggcattcaca actgaaaatg 300  
gttattttcaa caatggatgc tgtggatgaa ggaataccaa caaacttcta agaactotca 360  
tcaaaaacta aagcaatttg ctttgcccca gtggcaggca gaaggaattt agcccattat 420  
ctcaciaaact aggaaangan ttttggaatn ctnantanc ant 463

<210> 9768  
<211> 536  
<212> DNA  
<213> Homo sapiens

<400> 9768  
aatttattct tatttattta ttttgttttt gagacggagg ttcactctgt caccagggct 60  
ggagtgcatt ggtgcaatct cggttcactg caatctctgc ctctgggtt caagcgattc 120  
tcctgcctca gcctcccgaa tagctgggat tacaggcgtg caccaccatg cccagctaata 180  
tattgtattt ttagtaaaaa tggggtttca ccacgttggc caggctgggtc tcgaactcct 240  
gacctcaggt gatccacctg cctcggcctc tcaaagtgtg gggattacag acattagcca 300  
ctgcacgcag cctttctata cactttaaat catctctagt ttacttataa taatgaatgc 360  
naagganatg cgatgttaat aattgttaca ctacattgtt taaggaacca agaccagaaa 420  
aaaatccgtt cacattccat acanattgcca ttcccttttc nctntttttt gatctgttgt 480  
tgggtcccat ccctnggatt ccggaacccc tggaaanaaa agaaaatttt ttgcnc 536

<210> 9769  
<211> 497  
<212> DNA  
<213> Homo sapiens

<400> 9769  
gaacgccaag cttttttttt ttttaattaaa aagaaaaaaa aagagagaga aaaaattcca 60  
cattcattaa aatctctttc tcttgataat ttctgggttc cagctgactg gatgagtttc 120  
ttctgtggct gtgtcatcct ctctgtatata tttaatgggt ttatcagctt cagctgttag 180  
taatcgactt tcagactgat caaaagcaca agcaaattatt cctgattcac tgtccaaaga 240  
cccagggttg acagctgcgt gaactctctg aaaattgttag ccagttctcc agtcccaaag 300  
atgcatgggt ccattgtcag ctccagatac aagcactcca tcagaattta ccgtcaatgt 360  
gttaataata gcattatgac cggaaagatt ttgaatgaaa ctccatcag ggaatttcca 420  
ctgctttatg ttatctggag aancanattgc caatgtntta tgtcttggat gttaaancnc 480  
agccnaacn gaatttt 497

<210> 9770  
<211> 598  
<212> DNA  
<213> Homo sapiens

<400> 9770  
gagacagagt ctgcgtctgt cactctgtcg ctctgtcacc aggttggagt gcantggcac 60  
gatctgggct cactgcaacc tccgcctccc ggggtccaant gantctcctg ccttancctc 120  
ctgaataact gggaatacan gnacatgcc ccatgcccg gctcattttc tgtattttta 180  
gtaaaaaac ggggtttcac catgttggcc aggatgggtct ctaactccag acctcgtgat 240  
ccgcccgtt tggcctccca aagtgtctgg attacaggca tgagccacca cacctggccc 300  
ctcttttctt tcttaatcac aggtattggg tcaactctct gtaggcagggt gagtttactg 360  
cacatactct ggaataccac tgttcanaat gtcaaattaa atacagtgcc aacactgact 420  
gaangcgtt tactggggaa aaaactactg aaaaaagaat tcntaattat nttctacanc 480  
actgttantic canggttacc tactgttcta agttaaaccc aaattntcta accccccgaa 540

tntcctaaac caatactcca aatctcctaa acatcttgga agaatnctnt tccccct 598

<210> 9771

<211> 607

<212> DNA

<213> Homo sapiens

<400> 9771

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gttggtgttg | taaagtcggg | gttttgccat | gttgcccagg | ctgggtctcaa | actcctgggc | 60  |
| tcaagtaatc | ccctcacctt | gaactcccaa | agcacttgga | ctacaggtgt  | ganccactgt | 120 |
| gcctggcccc | taaagtatct | ttaattaagg | tatatacatt | gtgttttana  | cacttcgcag | 180 |
| cctacagtac | agtgtaaatc | cttttttttt | tttgagacga | aatcttgctc  | tgtggcccan | 240 |
| gatggantat | ggtggtgcaa | tcatagttca | ctgcaacctc | cgccctcccag | gttcaagcaa | 300 |
| ttctcctgcc | tcagcctctt | gagtanctgg | gactacaggt | gtgcaacccc  | acacccggct | 360 |
| aatttttgta | tttttactaa | aaacagggtt | tcaacatgtt | ggccangctg  | gtcttgaaat | 420 |
| tcctgacctt | gtgatccgcc | caccttggn  | tcccaaaant | gctgggaatt  | acangcgtna | 480 |
| accaccgcaa | ccnggcctaa | tttttttttt | tttccatttt | gggtcncctg  | aaaccccccc | 540 |
| nccccgttca | aattaatatc | cncccccccc | caccantttc | ttaaaatacg  | ggacccccca | 600 |
| cttnccg    |            |            |            |             |            | 607 |

<210> 9772

<211> 600

<212> DNA

<213> Homo sapiens

<400> 9772

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| aatttttaac | aaaattttat | ttagagcatt | aggaaaatca  | tattcaaaac  | acagaaataa | 60  |
| tcagactata | acaatgctgc | atagatagtg | gtatacaagt  | tccctgactc  | taacttcttc | 120 |
| ctaacttaaa | agttcaattt | tcaagtcacc | aggtagaaaa  | tgggtggaggc | attatttctt | 180 |
| ctttctgagg | ctataaaaaa | atggcttcaa | tgggtgagaag | gcaaaccatt  | taaacaatga | 240 |
| agattagatt | ataccccaat | ttaattctat | tcccttcttg  | tttgttattt  | ctcatagatg | 300 |
| aaaatttaga | atgtnataat | tattggaaag | gaataagaag  | tgaattacct  | cttaggagat | 360 |
| accctgatca | gtgcctgctt | taatcagaca | aaacactaag  | ttttaaaaaa  | tacaaccaca | 420 |
| atattatgcc | taactaaaat | tgccaatatg | aatacttttt  | tacagaatac  | attacatgtt | 480 |
| ttccagaana | aaaataactg | tttcctatcc | cccgaacctc  | ngttaaaaaa  | aaatntttcc | 540 |
| cttaccngga | tncgaaaatt | ttttcccggt | ggaacattac  | cccnnggggt  | tcaatctttt | 600 |

<210> 9773

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9773

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaaananaat | ttcgttcttg | tctctcaagn | tgcaagtcaa | cagcatgata | ttgnttcaat | 60  |
| gcaaccttcc | cctcccgggt | tcaagctatt | ctcgtgcctc | agcctcccaa | gttntctgga | 120 |
| ttacaggtnc | ccgccatcac | gcccggctaa | tttttgattt | tttagtaaaa | acgggggttc | 180 |
| accatgttgg | ccangctggg | ctcgaactcc | tgacctcagg | tgatctacct | gccttggcct | 240 |
| cccaaagtac | tgggattaca | ggcaggancc | accacgccc  | ganaccangt | tcttgacctt | 300 |

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| agtctgtaat | taactgattc | gggctaagcc | acttantatc | tctgggcttt | agttataaaa  | 360 |
| tgaatnnaca | ggactcaagt | ttccttctgg | ctccnaatgg | ctatacttta | aattttatttg | 420 |
| gttattcccn | aaanccaaa  | naaaaaataa | atcttatcat | ttctatcatt | aaaaaaaggg  | 480 |
| nnatccttgt | ncccccttgn |            |            |            |             | 500 |

<210> 9774

<211> 479

<212> DNA

<213> Homo sapiens

<400> 9774

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| aactttaacc | taaaacttta  | attggaaaga | caatcttata | aaaatcttat | aacatattct | 60  |
| agaaatggtc | caaatactat  | cacaaatgga | agaaagttca | gcttgaggag | catccaatca | 120 |
| tgtgaggtaa | aagtcttcta  | gtagaaccag | catgatcttc | cagaaaatta | caaagtaacc | 180 |
| attatctacc | ccgtcatctc  | cttcttgcc  | ggcatcccca | gagctgaaga | aagggaagaa | 240 |
| aaaaaatgga | tttgtttttt  | gccatgaaaa | atcttaacgt | aaagattaat | gcattcttgc | 300 |
| gcttaagana | aagggtgttac | tttcaactcg | ggtaaattaa | atactaggat | tgagactaat | 360 |
| ctgttcacag | ccaaataggg  | gtttactgaa | gctccaacgt | ttgaataaag | accacttatt | 420 |
| gggaagacnc | cccnaatnc   | ntnttattcc | ttccctccac | naatttttat | taagcmtcc  | 479 |

<210> 9775

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9775

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gtcagancaa | gaacactttg | ttttggattt | ctcccttccc | ctccacctc  | ccacctctgg  | 60  |
| aataaccgt  | ctgctcaagt | acccaagata | aganttacac | agatcagggc | anaagaccgg  | 120 |
| gaagaatgaa | aaaagataaa | gggaaggaag | tctcncctga | agaaaaaag  | aaaaaaaata  | 180 |
| aaaataaaaa | aagggtgcaa | ttgattacct | tagtcctcct | ttgtctaccc | ctgggctcct  | 240 |
| gggttaaaga | catgtgtgca | gccaaaatat | antgttaggg | aanaaaaacc | caacacgtcc  | 300 |
| cttcttgtcn | caaaacccaa | aggtgagcct | caaatggttc | tgtctgtcca | aaagggtgctc | 360 |
| cctccangga | aanggggcgg | aacaggtcna | aaacacatct | ccaggcacaa | aagttttttg  | 420 |
| gtggctgatg | gtgggganac | tggtttcccc | cccccaaaag | gctgcncnc  | ccccgggctg  | 480 |
| gtggtgcttc | ccatccccnc | ccccctgna  | ggcaaatttt | tttcttgaa  | acccccctg   | 540 |
| ggggcccccg | gcggcnggaa | aaaaaaaatg | cnntttgntt | c          |             | 581 |

<210> 9776

<211> 483

<212> DNA

<213> Homo sapiens

<400> 9776

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtagtttaaa | ttttaaaaca | ttgagatacc | acctcacaac | tattaaacac | tcaaagacaa | 60  |
| cattagtaac | tggctgtgtt | ggggagggcc | tgaggaaaaa | ggcactctcc | gcattgtagg | 120 |
| agaatacatt | gacaagagca | tcatgaaggg | ccattcagcg | tctatcaaaa | caacaaatgc | 180 |
| atatgccctt | agtattctgc | tatttcaact | ttgtggaatt | tttctacat  | atataatcac | 240 |
| aatcacatga | aatgacatgt | gtataaagtt | attgattgca | gcattgttta | cagtagcaca | 300 |

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gtatcaaaaa | taaccaaaatt | gacaccacta | gaaaaaccag | ctaaataaac | tgttattccc | 360 |
| atcatgcaag | gagatacttt  | acagctgtna | aatgaatga  | agatactgtt | tgtaaantc  | 420 |
| ntatgaaaga | ttttccnaga  | atttacattt | tgaaataanc | caggttccaa | gcncaaagt  | 480 |
| ttn        |             |            |            |            |            | 483 |

<210> 9777

<211> 412

<212> DNA

<213> Homo sapiens

<400> 9777

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ccagacacca | caatgactta | gagaacattt | catctccaag | agctgatttc | aaattatgta  | 60  |
| acagtaaag  | aaagcactct | gtaactggta | aagcattaca | aatgtcgtaa | tattcacgat  | 120 |
| ttaaatcata | tatggatgat | gtcataaata | attctaaaaa | gttggtattt | tcaacataat  | 180 |
| cacatttttt | aacaactaga | tttttgtaa  | gcttttcagc | actattccag | aaatacttat  | 240 |
| agaggaagga | caactagtag | acaaactgtc | acctattttc | ccaaattcac | ggttggggaan | 300 |
| aanaactact | tccactgaat | gttaatgaaa | cattccacna | aatcccatna | atctttcngg  | 360 |
| acattcccng | gtcnatggtc | caagcagatt | aaaattactt | tccnatnacc | cc          | 412 |

<210> 9778

<211> 494

<212> DNA

<213> Homo sapiens

<400> 9778

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| aatctatgac | tacaggaaaa | cattttattta | catgccctct | acaaaatgga | tttacaaaac  | 60  |
| atagtaacta | ttagggtaca | tgaccttgct  | cctatcttcc | ccattgtgct | tcttctctat  | 120 |
| agaaaacca  | atatgaaatg | acaaagagta  | ctgtactcag | aataagaact | tcatctatca  | 180 |
| taaatgtnc  | cataaatatc | agtgaattgt  | catactcaag | actcagattc | aggaacttct  | 240 |
| tcatcagggc | agcagtaata | ttccacaaaa  | catatttgct | catcttcatt | tctaatacata | 300 |
| tactgtaatg | aaaggaagcc | tctgttatct  | gtccgaatag | ataccttaca | agataggact  | 360 |
| aatgcctttg | tagagggttt | cagtaaggaa  | atcttgatc  | tggtgacttg | ggtctgaata  | 420 |
| caatgaaatg | ctcctccatc | aaaatctttt  | ggnatccan  | gggggaactn | cccgcntttc  | 480 |
| caaatttaan | ancc       |             |            |            |             | 494 |

<210> 9779

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9779

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| aaaaatccat | acaaatgata | tttattacta  | tttcttggtt | aagccctcat  | gtatcttctc | 60  |
| tattgtattt | ttggattctg | taaacaaaatt | actgtatcat | gaccaatact  | tgctcaagat | 120 |
| caacattgaa | tcatggattt | ggtgtcactg  | agtgcagcc  | atgtgaggtc  | tacatgtgct | 180 |
| gggacatacc | attcaccaaa | cttctcagct  | gtttcacgac | tgtctctatc  | aacttctgtt | 240 |
| tgtctcgatc | attcttcctg | aactgagcaa  | atatattgtt | cttttttgcta | gtatccttca | 300 |
| tcttctccaa | aanantaagg | gctgtgtttg  | gattcacccg | aaggtaacta  | aaanctggct | 360 |
| gcccataatc | agctangtaa | gtagaccaat  | cccaaaccat | aaacangtca  | aggaattgtc | 420 |



tgaaggtcaa tgaatgctaa ctgcaaggtt tccccccggn aaaccnggca caagntccaa 480  
actnngggaaa atttccnctt taaaactttt aaaaatggcc ngcccant 528

<210> 9780

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9780

aagacgtagt ctcactcttg ctgcctaggc tggagtgcaa tggcacaatc tcagctcact 60  
gcaacatcta cctcttggaa ttaagcaatt ctctgcctc agcctcccga ggagctggga 120  
ttacaggcat gcaccaccac gcctggctaa tttttgtatt ttacttggag acgggggttc 180  
atcatgttga tgatgaaagg tcccaaacct gaaaccttc acatntgaag cgaacatntn 240  
atcactacac tacaaaaacc cctcncagtt cctggcacia aanatattcc tgaaatntta 300  
ccatctgctg tttttaacta ctaggggttc caatataaca aattcnactg cttttcaaaa 360  
tttgantnat aaatacggna ggaaacacaa tccctcaggc aaanaggctg aaccctcatt 420  
tacgggtccn cncctaacc c 441

<210> 9781

<211> 503

<212> DNA

<213> Homo sapiens

<400> 9781

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnn 503

<210> 9782

<211> 409

<212> DNA

<213> Homo sapiens

<400> 9782

gattatttaa atagtttatt ttigttaatg ataggaatat ctctcagta agttcaaacc 60  
attttataac aggggaanaa taagctagtg ttagatctgg aaaagttaat atagcattat 120  
cttgaaattt caggggtaaa aagtgggtga ctggaacttc ncctttttta accaaacaat 180  
gttnaaataa acatatctga atagaaaact gtatctggtt cttttttatg tcaaatgtaa 240  
aatactttta taganaaaat tccatttttc tgcattctatt tagatgatat tacaataaaa 300  
ggcantgtgg attgganaac atagctagtg agaattattan gtttngtaat ttaaaaaaaa 360  
attanccttt ccctatgaaa taaaatncat gatcccctta attccnctt 409

<210> 9783  
<211> 599  
<212> DNA  
<213> Homo sapiens

<400> 9783  
gtataatgac ttcttttccct ttgggtaaat acctantant gggattgctg gatcaaatgg 60  
taaattctact ttttagttttt aaaggaatct ccacactgtt ttccatagtg gttgtactag 120  
tttacattcc caccaacagt gtaagagtgt ttcttttcac cacatccatg ccaacatcta 180  
ttattttttt gttatggcca ttcttgcagg agtaagggtg tatcgcatg tggttttgat 240  
ttgcatttcc ctganaatta gtgatgttga acatttttcc atatgctcgt tggtcatttg 300  
tgtatctcct tgtgagaatt gtctattcat gtccttagcc cattttttga tgggatcgtt 360  
tgtttttttc ttgctgattt atttgcatac cttgtagatt ctggatatta gtccctttgtc 420  
agatgtatan attgtgaaan atttncctcc actctgtggg gttgtctgtt aactctgccg 480  
aattattcct ttttgggtgca aaacctttta anttnaatta antnccatt aancaattac 540  
cctgtccttg ttgcatttgt ttgggggtcnt gggcccaaaa tcttgcctaa ccaaattnt 599

<210> 9784  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 9784  
caggattagg cacattttat tccaaatcat aaccataaag atttagaaaa tcaaatacat 60  
caaagaactt taaatctaaa ttactttttt aganactggg gtaagtttgc atagtgaat 120  
tatgagcacc ttttcaattc tgttcaactaa atttcatctc tctcttcata tagtggatt 180  
tcaaaggat tcagttttca tgatacagggt gtaagactcc tttcaaacgt ttttaaaata 240  
caacgtataa aaaaatgtgg actgaagcct ttagattgaa cttaaagttc tactgaatgt 300  
caaaacaagc ctaagttgaa tataantaat tcattgcctc aaaatatagt ctaaatttta 360  
aaagaatgtt gattctgana cattacatgc agcaggggaa aaaaactgca aatgcccaaa 420  
ataacatgat atctatttgg tgttccacac tcctgggtgg taattcnaaa nggggaaact 480  
tggtgatttc tgctttgtcg gcatacttat nggtncgtnt ccnatntta ctttgactta 540  
ttttaaa 547

<210> 9785  
<211> 622  
<212> DNA  
<213> Homo sapiens

<400> 9785  
atttttgaaa atatcatgat agtgtttaca aatgcacaca actttgagca aagctttaca 60  
aatccttcat accatacaaa gcaaatgaga aaataatgtc aattcatttc taccocaaac 120  
ctagtcttta ggagaaaatt cgcaggaaga gaggtatgag tagtttcaca gaatacattt 180  
tcaagaattt tttaaaaact gaaactccaa tgcccagaac aagataaaca gtatccttag 240  
cagtttagcac tgtaataaaa tctcagatac acaaaaatca agttccagag ggcaaagcat 300  
ttaattacag tccacaacga gcactgttgt gattcatata aaacatagtt ctctccaatt 360  
tctacacaaa ccgctctttt aatttattta attagatgaa caatgaaaat cgttttcctt 420  
ttcagcattt atctaagatg ttagaaataa caaagtagtt gcaataaagt gtttgaaata 480

09629469.072300

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| tttaataaga | atgttcgaac | cttataccaa  | attaattggt | gaaaaaaaga | aaaaanaatt | 540 |
| cctcctccaa | ccaaccntt  | ttcctaaaaat | naaaatacnt | tcccanggga | aaaaatttct | 600 |
| ngggngaatt | acacccccaa | cc          |            |            |            | 622 |

<210> 9786

<211> 560

<212> DNA

<213> Homo sapiens

<400> 9786

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gcctgcagat  | tcttanagaa | cgtgggtaaa | ctgtgctaaa | agcttcctaa | tacattaaga | 60  |
| aagtttgatg  | aaaggtacta | aaaccagaaa | cttttatttt | aggaagtaaa | cttgtatcaa | 120 |
| caagaaaatt  | ccctgtattt | ccagggataa | taattcctca | tctgcttatt | tgaccctcac | 180 |
| tttcctttta  | gactttatat | ctttccgatt | gaatgtatac | atttttaact | cagaaaaata | 240 |
| atccacatga  | cttttaaggt | gttcatcatg | cccattcttc | accattgaaa | attaaacaag | 300 |
| taaaggggaag | tccaagtaca | aagctaccgc | tatgttttcg | gananatttg | aaacaatcta | 360 |
| tttacacatg  | aaatattatt | aacatcaaaa | aatgttttgg | ctcancatgt | tgtttaaaat | 420 |
| gattctctca  | gttccaacca | atcttctatt | cctagcgggc | caattgccct | acaaaaaagg | 480 |
| gactgcatgn  | tgtctacaaa | ggnntttcct | cccctttctt | aaaacacact | tccnccctgg | 540 |
| aaaacncctg  | nactanaacc |            |            |            |            | 560 |

<210> 9787

<211> 339

<212> DNA

<213> Homo sapiens

<400> 9787

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| atatatacat | tagaattttt | tcctttttatt | cttgttcaca | tcttccaaag | ctgancttcg | 60  |
| tttcnaaagg | aaagatacca | naagcangaa  | gaaggtcctt | gggaaggga  | gtggaatctc | 120 |
| cctcctctag | cccccttgct | acctcttaac  | aggcttcaaa | gtcagaatac | agccatcagc | 180 |
| tgagancagt | tcattttggc | acactgggag  | gccggctgtg | cacaccggac | ctctctagtg | 240 |
| ggggatcagg | tcctctgctc | tccantgggg  | cctggaacag | ctccngtgag | atgccccncc | 300 |
| tgtnggctgg | gggtncanca | canaacctca  | gctccccc   |            |            | 339 |

<210> 9788

<211> 614

<212> DNA

<213> Homo sapiens

<400> 9788

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| aaaatgtgct  | cagtgttaac | tttattgata  | ataacccaaa  | acaaacctaa | tattttatga  | 60  |
| ttttaaaatt  | atttttaagc | acaaaatana  | cccatgttgg  | ggatgaataa | catgtctgag  | 120 |
| tttgtttaatt | ttgtctgcta | cttttcccta  | tatttccttg  | tttccttcat | cctaaaaattt | 180 |
| ttaaaaaatga | aaactttaat | cattgtttgca | tgtttaaaact | attgaatatt | ttcttttggt  | 240 |
| aactgaagta  | aaaggaaaca | ttcttgtaga  | attatggaaa  | ctaataatgc | agtaggactt  | 300 |
| aaaattgaat  | gttaggaggt | tcttcgtttt  | aagaatcttc  | ccgtgggaga | agtttccatc  | 360 |
| gaactgttat  | atcaatttta | tcatcaacat  | ttcccagcgc  | ctgctcttta | cagagttcta  | 420 |
| agaacacctg  | ctccaaggta | gcctgagaga  | ggctgtattc  | ctccangttg | aaggctctgtt | 480 |

tcactgcctt taatttgaaa aaggctgana cagaagggtg acatccccc caggtaactt 540  
acatgccata aagaagaata tcttcccgcc aaccaccgtg ggaaaacctc caaattccgt 600  
ntgnaaactn cccc 614

<210> 9789

<211> 421

<212> DNA

<213> Homo sapiens

<400> 9789

atcttttaaaa acagatttaa tgtgttaaaa aaaaatagaa tcaagtgggtg tgcttcgcca 60  
ctgagatgat tgtgctgtgg ctccgggggcc acatagcacc agggctcgat agcagagagg 120  
agtttcggcc ctggtccagt gcatgtgact ggtgcagggg cggaggccca gccgcacggg 180  
ggccagagca ggaacacagc cacctgttcc aacaggcgct gtgccttgta tgccccgtac 240  
atgtgcctgc cctgagagga gcatggggcca ggcctctctt ccagctgtgc ccccagggtg 300  
ccagtgaggc agggcgacct ctcaccaaca gagctcctcc aagccatgct ggatttggat 360  
tcctggaacc ccctgtaccc atgcggtggg ccacccccag ggggagggga nganatnnnn 420  
n 421

<210> 9790

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9790

cgggcactga aatcttttat tcgttaattt agtttctggc aagtgtttcc tcaaaatcat 60  
caagtnnttc cttgaacgta aaaccacaca ttaaaaatgt tattccactg aaaatgactc 120  
ctatgcaa atcgacatgt gatgtgtgtc caaatgccag agcattttga gaaaagaatc 180  
ctctgcaa ataaattaagg taaaagctga gtcagggatg atccgattcc cccccagga 240  
aatgacctgg agctgcacca actcagcgag gttggagctg aaaccctgag ttaataatga 300  
tcaaaaggga caaaacagga aggcctgggg accgtggaca gggnaagtgc gcanccctga 360  
ttgccantgg gcggaacaag gtcaggctcg gggaaacaag aagggttggtt gggcgttggc 420  
cctaaacana acagcctggc cnaagctggg ggccactgtt cctgaagcca aaagaaccag 480  
gttggttggg ggccnttttg aaaggaataa aaaggcctaa aaaaaacccn ctgnaaagtt 540  
ccttttaaag cctnttcaan cnaaaaatcc ntt 573

<210> 9791

<211> 434

<212> DNA

<213> Homo sapiens

<400> 9791

caaataatta ttggtcatcg gtcaagcana gtcttctgag gtctctatct taaaacagct 60  
gcagggataa gggacatcac tacctactgt ctttggatta catgtgattc tgaaaactat 120  
tcaatcctga aatgtaatca aatggccaaa tacaaccca atttaccact gatttttacg 180  
taaagttgag tctttgatca caatgctgtt ccttaagaaa tgatcaataa ctgctgagag 240  
atggttgaaa aatgcctttt cccacatit tggtttgtt gttgtttgct gactttactt 300  
ggcaagagtt attgggcctc aaatcagata ttacaactg taanacaact gggaancagg 360

gaaaagggaa aaggcaaggg gggtnggaaa aaggactacn aaaaaaaatn ttttcttttc 420  
aaangttaaa acna 434

<210> 9792

<211> 454

<212> DNA

<213> Homo sapiens

<400> 9792

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| ccanaaaactt | gacacaatag | tacttttattt | ttcactttatc | caactgcctc  | gtacaaatac  | 60  |
| aantgggant  | tgcaaatgac | anaggtttgg  | ctctgcacag  | ttttttcana  | aatccaggct  | 120 |
| tctggtgatt  | tactctgtgt | aacacatagc  | ttcccaagtc  | acattttaatg | tcaacatgaa  | 180 |
| aggctgcaca  | tgggagggtt | ttatgancca  | ggtataaaaa  | ttgcacatnt  | cacttccact  | 240 |
| cacattggaa  | ntaatggcca | aaattttaata | ataccnncct  | cnaaaaaggc  | tggaaaattg  | 300 |
| cctgggctat  | gtnttcagga | caaaaaggaat | cnggtttgat  | gaaaaataac  | cgggtgtcaac | 360 |
| cataancact  | attatnttct | aggcactttg  | ctgggggatt  | cantgatgan  | caaaaaacat  | 420 |
| ccttgatgaa  | caaaaatgac | nttcntanta  | aaca        |             |             | 454 |

<210> 9793

<211> 318

<212> DNA

<213> Homo sapiens

<400> 9793

|            |             |            |            |             |              |     |
|------------|-------------|------------|------------|-------------|--------------|-----|
| acagactatt | tgttttattat | gaaactaact | ggtaaagcag | agtaaattccc | attctatatatt | 60  |
| atagcactac | aaacatcctt  | agtcattcct | tcatttggtc | attcatticat | tcattgcattc  | 120 |
| agtgagtatt | tcttaagctc  | ctacagtgtg | ccaggaggca | ctctgttcat  | tgtggcatta   | 180 |
| caaagataaa | gattaaggna  | cgtactctgc | cctcaaggag | ctcccaatct  | aattgtgcan   | 240 |
| anagatgtga | aaatgaagca  | tgaactcca  | tcgtgaggan | cgccganaac  | aaaagtctgc   | 300 |
| tcgaagtgan | gcanaant    |            |            |             |              | 318 |

<210> 9794

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9794

|            |             |             |            |             |             |     |
|------------|-------------|-------------|------------|-------------|-------------|-----|
| gttttggttg | tananaacagg | gtttctctat  | gttgcccagg | ctgatcttca  | actcctgggc  | 60  |
| tcaagtgata | tccccggctc  | tgccctccaa  | agtgctanaa | tttcaggcgt  | gagcccccg   | 120 |
| gcccagtcag | catttggttt  | cacatacatt  | cacttgcttt | attttcttta  | cacctgtgtc  | 180 |
| atatattaaa | aaactacaca  | ttaganaaatt | taaaanattt | gccaaagtgtg | ctcanaaaagt | 240 |
| gatctgatgc | taagatgggtg | tccttccact  | tgtactaccc | ctatagccta  | naagtataacc | 300 |
| attaatccat | gtcctccttt  | ataacttggg  | gtcacacatg | gatcatgtctg | tttcagttat  | 360 |
| cttgtcta   | ttgatttcta  | acattgttat  | tgattctacc | cctaagtgcc  | ccaccttaaa  | 420 |
| ccacaaaatg | ttaaaaatgc  | tggatcattt  | ctacaatgtt | atctctaanc  | ctgggtgaacc | 480 |
| aaaaaattgc | taaactactt  | tgtgcaacat  | tacaatggcn | tgctgttact  | ttatttncca  | 540 |
| atccaaaatn | ttcaaaaatn  | aaattnannc  | caact      |             |             | 575 |

<210> 9795  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 9795  
ggatttatgt tgtcaataaa cattttatta gttccttgta tggataagaa gotttaaagtc 60  
aatgactaat tcatgccata tacacatatt cctgttttag attttctatt agcaaacatc 120  
ttgttcaatt gttgttggga gttttgagta cattcagaaa atgaaacccc acaatcactg 180  
tttacaacaa atgagtatgt ntttttccta ataaaatgaa gctgcttgaa aaaaacatac 240  
cttaaaatta agaatgttct cntcacttaa taagaatgtn ctcattatta aacaataggc 300  
aaatcaaaca aactactaaa gtggcaatgc tcgggatttt gagttccgcc ccaaacttga 360  
aaataaagta aacagccctc aaactttgaa ataaatggat nccccgtga aattaatttg 420  
cctatncaaa aaacgaattn ncccaaccn tccaccctcc gaagggnntt ttccccact 480  
ttatccancc tttcgggcaa aatgggtacc nttaattt 518

<210> 9796  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 9796  
gtnccttaagt aatttatattt aaaattataa gatttacagt gccttgatta tgcaaaatag 60  
cataatggaa attaaaccaa atcaataaac caaagagaaa gaaaacttaa ttttctctag 120  
tatccatact taaaccatct ttgtaagtat ctgatgtccc aaccatgtct tatgtagaaa 180  
gtataatcgt ttcaaagtgt tcaacttgag gttaatttc tcattttcaa tttttatgaa 240  
ctgtaatgca atttcaaatc ctattatacc tagtgtttat actgcaacag cagcaaatct 300  
cacatgtgta atcaaagtgt gaactggggc acagcttcta gctgtagaca gaaattatac 360  
actgcattca gtccaggaga gtacattaca ttaaccagag cgtagagttt agtacactta 420  
ttgcagggtg gtatttcttt ccctctgac tgaatcagct gagctgctga gcagacatat 480  
tactggtgtg gatagtaana ctgctgtggg ggctgangga angggtatna agctgctggg 540  
gtccnggtnt gancc 555

<210> 9797  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 9797  
ctcaagctgg tctcaactct tggtttcaag caatcctcct acctcggcct cccaaagtgc 60  
caggattaca ggtgtgagcc actgtgccca gcctatgcta catctttcta atccattct 120  
gtatatactg tgattttact ttcttgaagg ggcaaagaat gaanaattaa cagcaatcag 180  
caagaaactg gtttctctct tactgacaac tcctctactc caanacagcc ttccatgggt 240  
gtaactaatg ctgttagtca atattacagt ttgccccitt ctggggatgt gacaggattg 300  
caatttctgt cctctctgtg gttaaaaagg gtttctgtta caattcctgg ccatacanta 360  
tgantaatgt gccaaaaaat ggggtanctcc attaacttgg gatccnnaat gtggagaagt 420  
tatanttatg ttna 434

<210> 9798  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9798  
aggtagtggg tgtattataa aatTTTTTTT atgaacatat gtttacaatg aaaaatacaa 60  
actaatgatt tttttttcac gtagcttttag antcaaacta ttcacccaac agcaaggnta 120  
cttgtgggaa cagaaaggaa actataatac ttccctttca tctcctcaac cactcatana 180  
tgccctggct attgagtcaa attattttatt caggatgtca tcaattctct gtanatgata 240  
tgccaaggca aacagcanaa atcacttcta aattctgaca gaantccaga ttttgccctt 300  
cacatatgcc agtgctctcc aagtaaaaat gggctctaca ctgggctaga cactcnccag 360  
aangggatgc ccacgccana canctgctcc acttgacgtc ctctctctgg ctctttacac 420  
ccattacant gaaaanggtg cgggacccat acaaccagn caggaagaat gacaggcttt 480  
gcaaaccgt ggtcaaaaata aaanccnctc cacancgggg caaanatggc cttgacccaa 540  
acctgggggg ggctgcagct ntncattaaa angttttggc ccaaacactg gcc 593

<210> 9799  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9799  
catcactatc atatatatta tgttgtotta ccattcaaac tgttggcact atacctaadc 60  
cacagtaaac aggattatca ttcccataat atgatctttc ttatgaanaa tttggtaaca 120  
gtattctatt gtagttttca tganaaggct tttcctattc accaaattga ctoggttcct 180  
tgtcagtatg aataatgacc caagggtttac tggggatggg gacaatgtag gaagggtccc 240  
tcgcctcatt cagtgccttc tcagaggccc tctccanaac agccatgtgt gacattctga 300  
tgtggtcatt tctattttaca ataataatac tatttttctg ctgcatgcgt ncaacantgt 360  
tcaatccaga accaccccc caggggggtt tntcacact gtttctctca accgtggctg 420  
ctctgataaa cactgaaaca ctgatttctg aacaaaacct ttccccaaa atccccccct 480  
tgttnggggt tgtcnccatt atttnttctc cnnattttat ccaattggaa cctttgctaa 540  
aggcctcccc cncctccccc cccctttggg gtccncccc tttttaat 588

<210> 9800  
<211> 416  
<212> DNA  
<213> Homo sapiens

<400> 9800  
ctttctctgc atattattta tctattgctg cataacaagt tagacaaaaa ctgagcaact 60  
taaaacaaca aacatcgatt atctcacaga ntctctgctt ctaggttcac taatgtggct 120  
gtgggcagga nacttcattt ttaccacgt aagtctcttt ataggcctgc tcatagcatg 180  
gcagctagct tccccagag cgagttagcc aagatanatt gggggcgggt ggtggcanaa 240  
aanagggt caagtaaaan ctgcagtgtc ttttataacc taatcttgga agtggcatgc 300  
catcacttct gccatattct attggtcaca aanacaactt tggtagattg tgggagggga 360  
cacacacaga atgtntacac caaganacan ggatcnnntt ancanctgta ttattt 416

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<210> 9801  
<211> 402  
<212> DNA  
<213> Homo sapiens

<400> 9801  
gaagctttta aacaatgagc ttactgtgag caaacagaag caaggactcn aagagataat 60  
tagctcatgc atctgggtgct ggctaataat ttccacatga atgaanaaac cactctatgt 120  
taactgtatt tattttttaa aaatagtttg aaatggtaat aaaatgcaat ttccanaanc 180  
atcttgggtga tcgagtaaaa ctgcttaatt taaaaaataa ttccagttact tccacctggc 240  
ctgggggtgga taacatgtnt caaaaacttc cntcccacta aattctggca aatggattga 300  
tctttcncaa tatatatata tatatatata ttttncncca tttcctcctn atggaanccc 360  
naaaaccagg aagaaccncc cgttttgaaa aaaaaaatgt tt 402

<210> 9802  
<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 9802  
ggtatcagaa cataactatt ttattacaaa acttaacatt atttacaaaa tgaaaaaata 60  
atcnaatgac tattgcaggn caaagttaaa ggtttttcac tcnatgattg aagaaaaatt 120  
aagcaatatt tccatgcact cacaccagat catttctgaa atatgcaaac tcttaaaatt 180  
catgttagta aaactttaat gtattcataa tacttgctat gtttattaga agatgggtcaa 240  
aaaaaatcca tggttctgta caataatatt aacagtttgt tcattttcct ttaatatatt 300  
ttggcttcca tgaacactcg tagattgaac attctgcaag taagaattat aatagtacct 360  
ctgtcccctg ctgaattcnt cnccacaaga aaaacacaaa tagtttaatg cttttgcaact 420  
aaactgaata attattactc ccaaattntt ttaactgaan ccctccttgn tantcaatgg 480  
ntggattctt tnaaacnntt aa 502

<210> 9803  
<211> 608  
<212> DNA  
<213> Homo sapiens

<400> 9803  
gggagtatta tttattccaa taaacaaaaa tgtttttattt ccnnttcaat ggtatatatc 60  
ttaaattgct ggaacataca agtatnaaaa taagattatt ttagaaaact ccagttttga 120  
agggcncgac aatagttcag acatttgtca gtagctatga agccactttt aacatggaat 180  
gaatatccct ttactccaac tcttgggtctt attacatttt taaatcaaat cagcgtgctg 240  
gaaatagaga aaaattccca aagggaataa taaaataatt ttaagcattt tcagaaatac 300  
aagttacact taagaaactt gtattaaagg atgttaatct gagataaaca gaaaacaaac 360  
gttttgcaaa gcactacttt ttgcatctgt ttgaggatac acagtttgca gctctcctgc 420  
cagaagcaaa atactgactc tagcacagca gaaaaggctc nactttaaga aaaaaatgan 480  
tggtcgtctt ccatgactga acataacata ttaaaacttta agaattttta caatgccaat 540  
taccaccata gtanaaaata ctctttttan aatacaaaan tccnctttnt ttncctttaa 600  
aaatctcc 608



<210> 9804  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9804  
gagacagagt cccgctgtcc caggctggag tgcagtggcg caactatggc tcaccgaagc 60  
ctcagtcctc caggcccaag cgatcctccc gcctcagcct ccagagcagc cgggactatc 120  
agcatatgcc accacaccgc gctaattttc ttgattttct tttcttcctt tttttttttt 180  
tagtananat ganacctcac cctgttgccc aggctgggtcc cgaactcctg agctcaagtg 240  
atcctcctgc tttggcctcc caaagtgtcg ggatcacagg cctgagccac catgcctggc 300  
ctcagagctg tttttttctg ctattggctt ctagttttat ttcactgttg tcagaaaaga 360  
tacttggtat gacttcagtc ttcttaaaact tgtaggact tgttcgtgac tgttatggtt 420  
tgaatgtttg tcccctccta aacttatatg ttggagattt aatcaccaat gcaacagttt 480  
tggggaaggg angcctaag ggaagtgtta ggtcatgaag ggctttaacc ttggtgantg 540  
gaataatgcc gcnccttgaa aaaancnaat tggnaatggg gttccncc 588

<210> 9805  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 9805  
gactgaattg aaaatagttt tatagcagaa aactgagaaa caagaaaaca ttaaaattgc 60  
accacagaat ctgaggtttc aaagatctgt ttgaaatatc ttcatttcac taatttgaaa 120  
tttggggcag gatatgatct taagantcta aacattcaag anacgagggc aagaaagcca 180  
gtcacatgtn gaataccaag tccaaggcac gcgtcctgcg gtcaggacag tgttctaggt 240  
gtgaactcac ttaccgtggg gcctatgaan caggagtgtg tggccttcna anttcgaatg 300  
tggtcatgtg ggtgtgtagc gtgtgaatcg gacatggaaa aaaaaaaatc ccctatctgc 360  
ccagtcaaaa ataaatgtnc acctgaaaat cagatgcaac actaacttgc aaagattccc 420  
acaacataaa aaaaaaatga tgctttcatg ttgctgggcc gtggacaatg tggaaaaact 480  
gaagcgtttn cngcgtgtt gtcaaaaacaa ctcctntnca aacanggggt ngaatttngc 540  
tt 542

<210> 9806  
<211> 577  
<212> DNA  
<213> Homo sapiens

<400> 9806  
ganacagggt ctactctat caccanact ggattgcagt agctcaatca cggctcactg 60  
aagcctcaac cttctgggct caagtgatcc tccagcctca gcctccaag taggtgctgc 120  
tataggcacc catcaccaaa cccaactaat gtggtttatt ttttgtanaa atggggtttc 180  
actatgttac ccaggctggg ctcaaatcc tganctcaag caatcctccc accttggcct 240  
ccctaagtgc taggattaca agcatgancc actgcacctg gctgacattt taaaataaag 300  
gttaagtgtc atggctctgaa tgtttgtgac ccccaaaatt cctgtgttga aatctttacc 360  
cccaaggtga taacactang anggtggtaa gtgagcctgt aagcctttgg gaagtgatta 420  
anggggaagg gcctcctgaa anggattaat gcccttataa taaaagcctc anaaaactcc 480

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ctccacctat ctaccatggt aaaatcccca tctgtnaanc aagaaaacaa gntccaccaa 540  
anaccaaadc tncgggcacc ttgatnttgg acttnca 577

<210> 9807

<211> 610

<212> DNA

<213> Homo sapiens

<400> 9807

gtttgcttta ggcttacact gatctttctt ctctagtttc ctaagatgga aacttagatt 60  
atgaatttta aatcttttta atctcttcta atataggcat tcaatattat aatttatctc 120  
caaccactac tttcactgct tcctataaat ttgatacat tgtattttca tttttattta 180  
gttcaaaaca ttttaaaatt tctgttcaga ctctctcttt gaccatctg gtatctanaa 240  
gtgttttggt taatctccag ttactttgag atttcccatc tacgtttctg tttttgattt 300  
tgtttaattt cctctgagag cacactttat atggtttgta ttctttgaaa ttgttaaggt 360  
gtatcttaag gccaaagtat tagtctatct tgggtgctctg ggatgaattt ctgcacagat 420  
gcaacctctg tgggtggaac caggatgaaa ntatatgcat ctgtgaaaaa ctggccttcc 480  
atctgttttc tgatgcaacc aaaatgcttc agggctcgtc ttatctggaa ggttgaatgg 540  
ctacaaaact ttanggggct ccngttaaaa ctcaaactga aaaatcctgg tccccgntcn 600  
gnantctttt 610

<210> 9808

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9808

agtttgtttt cagtanaagc aaggctctac tatgccgccc aggcaagtct cgaactgctg 60  
ggttcaagta atttaccac cttggcctcc caaagtgtg ggattacagg catgagccat 120  
cacacctggc caatttttct aaaagtctga aattaagtca aaattttgaa aaagttatag 180  
caattatggc aatctcaatt atgggtaaat gtgtgtcaca ttatctcctt tacattttta 240  
gtatttcata attaaaaaaa aaaagcagan aaaattgttt atcagaggaa acctcanaag 300  
anatgaggca gtcgtcagca agtanaangc tccctttcag gaaactgaaa ccgggtgcca 360  
agtggctgca naacgggtga nanttagcc cccacctctc cactggaacc tantgacccc 420  
atgcanataa caacctgccc aactcttcac cctgacctgg catcatattt atctataact 480  
ggcagttctt ctctgacggg ataaattaat aaacnttaaa acncctctaa aattttttac 540  
ctgttgttcn cgccgggtnt gccnntnttc actccccctt tgt 583

<210> 9809

<211> 602

<212> DNA

<213> Homo sapiens

<400> 9809

anataaanag ttttgctctg tcgcccaggc tggagtgcaa tggcatgac ttggttcaact 60  
gcaaccttcg cctcccagggt tcaagtgatt ctctgcctc agcctccgag tagctgggat 120  
tacaggcagc tgccaccacg ccagctaat ttttgtactt ttagtaaagg cagggtttca 180  
ccatgttgcc caggctgggtc ttgaactctt gacctcagg gatccaccg cctcagcccc 240

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| ccaaagtatt | gggattacag  | gcatgagcca | ctgcacccgg | cctaggcatc | tttattttcta | 300 |
| tgtatagaaa | gccttcctta  | atTTTCCCCC | caaaganaaa | ttattgttta | gtatttttgaa | 360 |
| tgaagancic | agtttagcaa  | tttaaatcaa | gaaattatac | aaattgttcc | atggagatta  | 420 |
| aaaagaaaaa | ggagctcagc  | ttcncctaag | tgacataagc | ccaatataaa | anatatgttg  | 480 |
| gatatcttga | ancccaactcc | ctttanaatc | ccctccntct | ttaaaaacat | aatgtttaat  | 540 |
| tccaaccctg | aaaccnccat  | tatgattnaa | attaactttg | aaaaatnatt | naactttgaa  | 600 |
| ac         |             |            |            |            |             | 602 |

<210> 9810

<211> 605

<212> DNA

<213> Homo sapiens

<400> 9810

|            |             |            |             |             |            |     |
|------------|-------------|------------|-------------|-------------|------------|-----|
| gttcaaaggt | tttactgctc  | atcctgagaa | gactgtacat  | actaagaaag  | taacaacctg | 60  |
| gggaaatggc | tgaagttcca  | aaagactcca | gacttcttac  | aggtttcatc  | tctcttctgt | 120 |
| ggccactaac | ttcccaagga  | ggcagtgccc | aaaagccctg  | tggttttttg  | atccgttgta | 180 |
| cttcgatagc | tcctcctttc  | cctagatcca | gcagaactct  | agacatgtna  | gacatagttc | 240 |
| acaaaacaac | agttatgaac  | caacaaatac | ttggctcacg  | gttatgagcc  | actgaagtcn | 300 |
| gtcagactta | aggacaacta  | gacagagctc | ccattttctg  | tcctctgggc  | aggaaccaat | 360 |
| ctcctgttgt | ataaaaatgac | cttctggtag | tttctgggaat | cttgcttccct | catctgttaa | 420 |
| gtgaggctaa | taccgcttac  | tcatagtttg | gttgtgaaga  | tgaactaaga  | acatgacata | 480 |
| ttaccgtttt | aaattgtnc   | acanacctgc | tttaaccaa   | tgccgcaaat  | ctccggtttc | 540 |
| ctcnacatat | aaaaaacaat  | tctnactgcc | agggntgaaa  | cccccaantt  | ncctaaacaa | 600 |
| aaaaa      |             |            |             |             |            | 605 |

<210> 9811

<211> 609

<212> DNA

<213> Homo sapiens

<400> 9811

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gaattctaaa | ataccttttg | attatataaa | attacattgt  | aaagttacaa | atgttgctca | 60  |
| ttcttgagaa | atgtttgaat | gtttaaataa | tggtgccata  | atacatatta | tttcacgaca | 120 |
| ttaaaaaaa  | caatggtgaa | tacaaggat  | catcatttta  | agggtaaaga | nataaagcaa | 180 |
| gtacatatac | aaatccactg | gaaaagctaa | gtttggagct  | gatttctct  | cttgaattgt | 240 |
| aaaatttcag | taatacacag | tcactatcta | ctgctggaat  | aatgcctgag | caatttaggt | 300 |
| aaagatacaa | acaataacaa | aaaccctgcc | caaataattca | aacttggaga | attctagtta | 360 |
| aaataataga | aaaatataaa | atttatcctt | ccaaaaaaag  | gtatctaaga | caaaggata  | 420 |
| natacccat  | gtaaattatc | acaagtcata | tgtgaatcaa  | ccttttctgt | attccttaaa | 480 |
| gttggtcaat | cgactgatga | aaaaacaagc | tcntattcaa  | aaaaactttc | aaaacacacc | 540 |
| tacnantaac | ttattaatgc | cgaaatttnt | tttaaaaaac  | agctattccc | tganttcttt | 600 |
| aaggaaaat  |            |            |             |            |            | 609 |

<210> 9812

<211> 468

<212> DNA

<213> Homo sapiens

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<400> 9812

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gttttngtan | aaatanggtt  | tcacatgttg | aacangctgg | tctcgaactc | ccggnctcaa | 60  |
| gtgatctgcc | tgccttggca  | tcccaaagt  | ctgggattac | aggtgtgagc | cacgcacccg | 120 |
| gntggatttc | aatatttgtt  | agccctataa | gaaaactgtc | tttcacctcc | tccaacaggg | 180 |
| aaagggagac | aganaaatct  | gaggaatgct | gataccagan | aaagtcctcc | aggggagcan | 240 |
| aagcagatgg | agggtgtgctt | ggtcacaaca | tantctcgac | cattctgaca | cacggatgac | 300 |
| ttgcgtnncc | gcagaaactg  | ttctttgtag | cccaaatgc  | agccatcttc | ataatcttca | 360 |
| nggtctgtgg | agtgtgcca   | ccatattgga | tagtccttct | cttcctaaa  | ngananacac | 420 |
| actgttcang | aaagtaccag  | cacanaaccc | ccacgggaag | cantgcca   |            | 468 |

<210> 9813

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9813

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaggtttcac | acaaacagca | tttattatta | atttgcttcc | atganaaaac | accgttacat | 60  |
| cagatccctg | tggacaagct | gctaccaggt | acatcttctg | tcttctgttt | ctgcttctgg | 120 |
| ggacattana | cttcctatgg | actctcctaa | gcctcctaag | gcagttggnt | gatggcttcc | 180 |
| aaaaattgtc | tttctgccct | ctccactctg | cctctcctgt | tttgacctct | gtcttcctcc | 240 |
| ccatgacagc | atgagctcag | tgaggacagg | gacttttgtg | atcttggttg | caccccagtg | 300 |
| cctggaacag | gctgcanact | cctgtanatg | tgagacttct | cagggccctc | cacacccttg | 360 |
| gtgttttttt | tttctccccc | nattgttgaa | gttttttgc  | gaaganagtg | tttcacgtcc | 420 |
| tgcttatatt | tttatttgaa | gtgtctctga | tatanttatt | attatcattt | tonaaatntg | 480 |
| gccccgatna | ttaatccgga | aaacaaaaac | ttaaaatttc | ctacccttac | aattccattc | 540 |
| aatntanttn | cctttttgaa | cccgtccccc | ctgttt     |            |            | 576 |

<210> 9814

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9814

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtttttgatt | ttaagaagga | attcttttcc | aaagttactt | ccaagtaa   | tacatttcat | 60  |
| gctgggatac | ctgcttatgt | gcacacatt  | ttgacaaagg | gcagtggctc | gctaacacta | 120 |
| acatgaattt | aaggncagc  | atcattgcaa | tttgtcactc | ttcatcctca | tcctcatcat | 180 |
| aataccgatt | tctctttatc | tgttcttcca | cagagagctc | tttgaccact | tctccctccc | 240 |
| agagttccac | atcctgggat | ttctgattct | gagtagtgaa | ttcttcanca | aagggtgtgt | 300 |
| ctacaaaact | cgaccaattc | aganacttgg | gttcttgtgg | agatngttgt | ttgangaanc | 360 |
| tgttatcatc | ttcatcgga  | tctgcacat  | tttctacaan | aatctcattc | tcctctccaa | 420 |
| ctatgacntc | cctaattctc | tccccgtctc | tccttaaaat | ccttgtttgg | ccagtttttt | 480 |
| tncccatcc  | catnctcctt | naaaccttgg | gntttccctt | nttcnntttt | gn         | 532 |

<210> 9815

<211> 537

<212> DNA

<213> Homo sapiens

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<400> 9815

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aaaaaagtac | attccctgt  | ggagttttat  | cttgttttta | aaagctgctc | ctgcagcaac | 60  |
| atcttggtga | aacactgctg | ttttagggtc  | cacagcctaa | gtacgggcaa | agtgtctttt | 120 |
| ttagtcatca | aaatacaagg | gtttccctgg  | acacttggtg | accaagcagg | ttttaaagtg | 180 |
| cactattgtg | tccaaacact | aggaccgttc  | agcananctc | tgaaaagggc | tgggttcagt | 240 |
| tccatcctcc | gtgctactgt | ctatgtcctg  | ctccattgct | gtctcctcat | catccanctg | 300 |
| ttgactantg | aanttgttta | gctcaagaac  | ccactgggct | ccccaccaca | ttgganctgg | 360 |
| agtgacaagg | aatancatnc | tgaggaaaata | cccggaatna | naattctgct | ggaatctctc | 420 |
| caccttcctt | tggccaaatt | ctnaataccc  | tgaactggcc | tttccangcc | cgcgggtgga | 480 |
| atcaattttc | cctgntcttn | ggggaaaaac  | ccccnntgga | tggaacncaa | aaaggaa    | 537 |

<210> 9816

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9816

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| aaatananat | gangttttgc | tatgttgccc | angctgggtct | cctggactca | agcaatctcc  | 60  |
| cacttcaggc | taccaaagtg | ctgggattta | caggcatgan  | ccacctctcc | cagtctcagt  | 120 |
| tattatttta | ataaatgana | ctgaacgtcc | tcttataagg  | ctcactccct | tgttcctact  | 180 |
| acatttgctc | tgtttaagta | tctcttttaa | ttcttcagtt  | aanatcatcc | cttttatcag  | 240 |
| aaacctagac | accacaaagt | agctttctca | cctttaattc  | tccatagggg | tcaactattat | 300 |
| actataatat | ttgcatacgt | atgtgtatat | atgtatttgc  | ttttttaaaa | aggtaaaaaat | 360 |
| gctctttctc | ctctttgtcg | atatangcac | ccangttacg  | ttatttagaa | attaaataaa  | 420 |
| nggcacaata | anttccccag | ggaagaatcn | ttaaaaaana  | aaaanccttc | ctccccctaa  | 480 |
| tatcacataa | cttggcctta | ttggcntgcc | cacctaaaaa  | aaaaaggttt | gncctatngt  | 540 |
| taaangaaaa | aaccaacctt | ncccncttng | ggt         |            |             | 573 |

<210> 9817

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9817

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gttgtgtctt | tgccaggttt  | tggatcagg  | angangctgg | cctcataaaa | tgagttaaag | 60  |
| angatccctc | ttttttctat  | tgtttagaat | agtttcacaa | gggaatggta | ccagctcctc | 120 |
| ttgtacctg  | tgatanaatt  | cagctgtgaa | tctgcctggg | cctgggcctt | ttatgggttg | 180 |
| gaggccatta | attactgcct  | caatttcaga | acttgtgaat | gatctattca | gggattcgac | 240 |
| ttcttcctgg | tttagtcttg  | ggagggcgta | tgtgtccagg | aatttatcca | tttcttctag | 300 |
| attttctagc | ttatttgtgt  | agaggtgttt | atagtattct | ctgatcgtn  | tttgtatttc | 360 |
| tgtgggatca | atgggtgatat | cctctttatc | attttttatt | gtgtctattt | gattcgtgtc | 420 |
| tcctttcttg | tttatcaatc  | tggctagtgg | tctatctatt | ttgttgatct | ttncaaaaaa | 480 |
| ccactcccgg | aatccttgaa  | tttttgaaag | ggtttccacc | cccccccncc | nccattcngc | 540 |
| ccgaatctan | ntaattcctg  | tctccgcca  | ctttt      |            |            | 575 |

<210> 9818

<211> 571

09629469.07300

<212> DNA

<213> Homo sapiens

<400> 9818

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acaatcttaa aactacaaaa tgctgtcttt ctttctttca gaacaggtgg gattgttcct   60
ccagcagctc aacagcttca caganaaaat attcaacgaa tagtacaaga agctctttct  120
gccagtggan tctctccaag tgacctctca gcaattgcaa ctaccataaa accaggactt  180
gctttaagcc tgggagtggg cttatcattt agcttacagc tggtaggaca gttaaaaaag  240
ccattcattc ccattcatca tatggaggct catgcaacta ctattagggt gaccaataaa  300
gtagaatttc cttttttagt tcttttgatt tctggaggtc actgtctgtt ggcattagtt  360
caaggagttt cagattttct gcttcttgga aagtccttgg acatagcacc angtgacatg  420
cttgacaagg taattaagaa tttaaattct ccatcctttt tgttatgttg tccattccac  480
taanttacaa taaaatttct nccccatccc ctaatnttct naatttttct tataactgaa  540
aaaatccctt ttggtganaa aaataaaaaa t                               571

```

<210> 9819

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9819

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aaatttctaa ataggtttta ttttggncac catcatttaa tgacattcaa ttaaggattt   60
cttgaacaat ttctacaaaa aaaataattt cctccnccaa aacattgaaa aaattgaaaa  120
ctggggtcct aacagttgca aaacaagtct acaccattcc ttagtatgaa aaagcaacca  180
taaaaaaatg gagcatcaaa atatttttatt tcaaatttat tttatgccag atccaagctg  240
taactggaac ctattcccag tctatgggtt tctgaatttc attttcctat ttattgtatt  300
tttatgagaa acttgttgta atgagttctgt accactttat ttgacattta ctaaagctgt  360
ataaaagcca tgcacagttt atttacagta ttgtacatta aatgataatg tttgaagatc  420
acacaaagat ttcacaaaac tataactaat acagaaagat gtgtgaaaac attaaggggc  480
ttccaaantt taaggttgga aatttggcna aaatatttng gcttataatn tttgggcanc  540
cctaaccgga aataattgac aaaacctgcc naaaaatacc cttccn                               586

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<210> 9820

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9820

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catgattcca ataagcttta aatcaatagg caaacacttc tcatttatga tccatcttgc   60
tacaggtggg tatgtganaa nacacagtgt cgccaaagct gacctagtat ttaggtccct  120
anagggtatt ctgatctgct aagagaaata attaaaaaaa aaaaaaacaa aaaaaaagga  180
caaccataca ttttggtagt cttttaaaaa aagctactac aaagatatca ataaccatcc  240
aaaaatcact taaaatttta tatcccttaa ttccaaana cactttgtga tctgactgtt  300
cttgaaggaa agcctanaac tgaaaactac taaaacttgg ctctctctta ggaaatgtgg  360
aaacaggttt tctgcaaagg aaaaacttga caagggaatg ctacaaaata ccantccctt  420
ctttaaaaac tcctcccacc tctcctgctc catttnatgg aatgggcagg ctggattcaa  480
aaaggccctt cccaaggaac tgtttaaatc ccncnaaaaa tccctttcca anggattcnc  540
tttgaattta aaaaaacttc aanntttnt                               569

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<210> 9821  
<211> 575  
<212> DNA  
<213> Homo sapiens

<400> 9821  
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taaaacaaat aaatgtccca agatctctgt tagtgatcca aactaaggag aaattagtaa 120  
aattaattat aaatgaacaa tticagcata taaaccaaca agtcttttct agatttttaa 180  
cactgtgacc caattgcatt attttccaag ttagaatgac taataatcaa tgaatgtaaa 240  
agcaataatt aatacagatg acattctact tttccacagt aaagaaataa acaatctaata 300  
atttttataa atcccatttt atatcacaaa ataaccttta ctaagcaaat ttttttaaaa 360  
tctcaggaaa ggaaatgtaa aatccttatt tgagtataag aaaatgctat aaagcaatga 420  
gtnttcaaaa tacagaagaa gtattctaaa acaaatgaaa aaccnagatg atgaaatagt 480  
gacactactc naatgttttc ananactgaa atgccagggg aaannaactg aattattcct 540  
taagccgtgg aaaattttac tticaaaaatg canaa 575

<210> 9822  
<211> 458  
<212> DNA  
<213> Homo sapiens

<400> 9822  
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gatgatacca acctgaattc taaaacagct tcctgattct tggacactgc tgtcaaaaatg 120  
acattcagtc tgcaacagcc ccaagaagca agggcaaagc cagggtgctgg ggggcctggg 180  
tcctcccccna nccctgaaag tggagtaaag atgtttggcc caaaaaaggc tgggggtgcaa 240  
agccagggtca ggggaaagca nantccgctg ggccttgtac ggggggtactg gtgccaggct 300  
tctctgggac acccccaccg aacangcaca ggggccacgg ggcacaaacc cactgaaagt 360  
nccgtctcca ccaccanaa gctttattta caantnaaca cactggtctc tgtnaactgg 420  
aatcctgaag catcccacct cnaaaactna aaaaaagt 458

<210> 9823  
<211> 505  
<212> DNA  
<213> Homo sapiens

<400> 9823  
ggttattcac aagttttgaa cttcattcct ctgggggtgat tattttataaa gttaaacaca 60  
tccaaacttg ttgtgttaca ttattaaatt aaatacattt ttctttttga agagcttcag 120  
tagtctgaaa taacaagtga agaaatttgg aatcaaagaa acacaagagc taatcatata 180  
atgatcttgg ttgggaatag aagactctta tcaaaaaagg gggaanagggt acattgtgct 240  
ataaatttaa ccaatgatgt gtaacactga caaccctttt taattagtca ttgacatatc 300  
aactagtgat tcaaggtata ttgtcctaaa atacacatcc tgtatattat ctgccatata 360  
atgatgttag atttctgacg gaaatctcta aaatactcct ttccacaggg cttattttgct 420  
tcntgtgttc tttcntattt tgangaaaan attctaatta ctttttcnta attttaattc 480  
natatgaatc cccccgaaga naagg 505

09629469.072300

<210> 9824  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 9824  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 60  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 120  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 180  
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nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 360  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 420  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 480  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnn 538

<210> 9825  
<211> 557  
<212> DNA  
<213> Homo sapiens

<400> 9825  
aaaatcaaaa tgctttttatt atgggtcaaaa tcagagccat tgagtcctaa cagcttaaac 60  
tagatataga aagcagggca agtagtgtaa aacctccaca ttttctaggc ccttcttcat 120  
atagcagttt gattatactt caatttggtg ttaagaggac aataatacaa agtaaatgtc 180  
cacaaaggac caaaacacca aattttccat gtccaacaac tctctataat taatctacta 240  
tgtagctagt gtccacgccca aatgttcagt tcttaacatt cgccaagaag gaatgggaag 300  
aaacagatga gtgacttcag atagggagta cactttctct tcctagtctc catogaacaa 360  
tctcactttt ttaacagaga atccccaca gctacatcca agttaagagc aaaatgctta 420  
cacaaaacca aaagacaaat tactgtaata ttatagttat catttctatt ccttaacata 480  
aataatcnaa aagtgactgt ntanancat taaatgcaat cntccttntt tctgcccgtn 540  
aaaaaatgcg ccttaac 557

<210> 9826  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 9826  
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agcaattggt ttacctcagc ttcccaaagt gtnaggatta caggcatgag ttaccatacc 120  
cagcattttc ttaatccttt tccaattang aagcaaaggt ttaaacctct agtttgtaaa 180  
agatggcaga gtttaaggaa aagccatata acagaggtac tatgttactt ccanagcaaa 240  
gttatttttc tcctcaccac cccccaaaca ttttactaca ataatttcca gacatacana 300  
aaagtgaac aanttgaaca atgaacattc acatgcccac catctagtgt ctataactaa 360  
tattttgccg tatttgcttt atcagatatc tatccaccta ataacgtaat ttttgatat 420  
attacanagg gaagttacan acatcactta ngttttttaa aaaactanaa aggcaattat 480

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tttctgttat gttggctaag anaatttaaa ataattaatg antaacnttg tntccaagtt 540  
ganatc 546

<210> 9827  
<211> 448  
<212> DNA  
<213> Homo sapiens

<400> 9827  
cactgcagga tttgttttatt tcacactcac ccttgaggcc cggcccgccg ccgtgccctc 60  
cctctccctg cgccggggcc gcggagctgc agagtccgca gaggggtgga ggcaagagag 120  
gggggcagtg tgtccaggac cgagcgggtg gggcgtctgc agagggtgag agcagcgagt 180  
ggtctcaggg cgcccaggac tgggtccgat gccatcacag ttcccaactc ggtaaagacc 240  
cggggggcaa caatcccaaa agaaggcact agcactcggg gcgcgcctgg acaccccccc 300  
ccgttccctc tcagagcgct tacgtccacg gggacggggg agagaagtcg cccaatcacg 360  
ccacgagcgt angcctccan ggatgcggct cgcgcgtgag cttgagggta tangtgcgca 420  
ngcgcgggca ntgcgcgcgg aangcntc 448

<210> 9828  
<211> 481  
<212> DNA  
<213> Homo sapiens

<400> 9828  
cactattttg ggttttttatt ttgttganct tggttaaatc ttatctcttt ttttatacac 60  
aatacttcat gtncctatga aataaaacag gtagggaata tgtccagtgc aaacaganga 120  
ctcacacctg tncatagaca gcaccatcca ctgattgtcg ctgcagtcca cggcggttact 180  
aagcctgcgc caccacagtg ctgccccagn aggcgctacc aggctcttcg ggccacaggc 240  
ctctcctcca ctgcatgttg cggcagggcg ggttaggtcn canggctcca tnattgtggg 300  
gcagcttcaa gggcacatgg ggcaaaagcc ctznaangtc cctcctcagt anggggatgt 360  
cattctgata atactgggat catgttgtan gtcccgtccc tgttgctgaa gaaaacanct 420  
ctggatnacc ttcatnataa aatttgcaac ctncnccctca atcatnttgg ggntaaacct 480  
t 481

<210> 9829  
<211> 534  
<212> DNA  
<213> Homo sapiens

<400> 9829  
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ccaaattaag ctctgaaaca actgggagac aggctgcct aggtgatcag gancatccan 120  
gcagcaggga tgggaagcag aaganatgca ttctggatag ggacctcacc ccagagcctc 180  
agtctgtaca tacntgtgac tattcaggga cggggagttg anaaccagaa acccaccatt 240  
cctagtgttg ccctgggttg gaggcagana aagcagcagc acgtgaggtc aaggacatta 300  
ccaagtctga ccttggcatt tgttgccctg tctcatcccc aacagtccat aaataagtta 360  
tccancacat ctanggggtg gangcggggg gaacaagcca actagccata ncctctggaa 420  
aaaagggcag gccacctggc actggggcag actacacana atgcatctga ctctgtcttc 480

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cgncctctgcn aaactccccg gntnggcgctc caaattnngt cccnccccg cctt 534

<210> 9830

<211> 537

<212> DNA

<213> Homo sapiens

<400> 9830

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gcacataaaa | acatcattta | ttgttagaaa | tcatgacatg | atacaaagtc | aaaatccact | 60  |
| tgtgtcttgc | taaagactac | agaaagccat | gctcagcagc | ttcttctcca | atgctggcca | 120 |
| gcagcgtacc | tttccaagtc | acaaagcagt | tcatcccgcc | ctcaaggagc | cgacagggca | 180 |
| gcccanaacc | tcccactgac | aagtgtgggc | accactcaa  | gatactggga | aagatccctg | 240 |
| ttctagcatc | acattttaat | cagatttgtc | aaaatcaggt | tgcttggggc | aaaggctctt | 300 |
| tcaccgaggg | atgctagtcc | tggaanaact | ctccttcggc | gaanccgcca | gctcaatctt | 360 |
| ctgaaccagg | ctcacatccc | agggatgggt | ccaaaactga | tgacgggtgc | tgggcaactc | 420 |
| gctccccaca | agggccatct | ccctgctctg | tggatgttat | cttgcanctg | tggggggaaa | 480 |
| tcatattgan | aaccnctccc | cnccattgct | gttcancccc | aaaagntatt | tnttttc    | 537 |

<210> 9831

<211> 548

<212> DNA

<213> Homo sapiens

<400> 9831

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacggagt | ctcgtctgt  | cgcccangct | ggantgcagt | ggcgccatct | tggctcactg | 60  |
| caagctctgc | ctcctgggtt | catgccattc | tcctgcctta | gcctcctgag | tagctgggac | 120 |
| tacaggcgcc | cgccatcacg | cccggtaat  | tttttttgt  | atttttagta | aanacggggt | 180 |
| ttcacctgt  | tagccaggat | ggtctccatc | tcctgacctc | gtgatccgcc | cgcctaggcc | 240 |
| tcccaaagt  | ctgggattac | aggtgtgagc | cactgcgccc | ggccaaggga | ggtgatgtta | 300 |
| aactganaat | cataaaaccc | attaagaatt | cataatcaca | gcagaagcat | atctatccat | 360 |
| attctgtcct | gagactgaaa | tcattatata | cacatataag | ttaaggatc  | aacaantttt | 420 |
| aaaatatact | attttattgg | aagggaanan | aataaccaan | aaaaantgan | gacctnaact | 480 |
| gctcctccag | gcntttttcc | ttttggaaaa | tttcctatn  | aagctggcct | taattttccc | 540 |
| ctttactt   |            |            |            |            |            | 548 |

<210> 9832

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9832

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cttattcagt | ctccgtanag | actgtcaaaa | attgccagcg | ctgattatat | ttcaagtcac | 60  |
| cacgggtggg | tattgggaaa | atttccaatt | ancaataatc | gcgtctcgga | taaatctcat | 120 |
| tggctacgg  | actgccactg | caaagctagc | ttgacgtagg | actttgatgg | tcatgtntaa | 180 |
| cacctcacag | gggcagaacc | tcctccatcc | cgcactccaa | agactcatgt | natcagtacg | 240 |
| caagaaagtt | cananatgan | acctctgggt | gtattccacc | tttgggacat | gggggatgtc | 300 |
| tttagttcaa | agtcacaaat | aatgcaggt  | totacaattc | agangcttca | tatccctgct | 360 |
| ggagtattac | atgtttattc | aggatggacc | acttttctta | gcaacagttt | ctaaaccttt | 420 |

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|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gccangtctg | ggaaatcttg  | gcaggaaaaa | ttctaanaaa | caatcatcct | gcacacactt | 480 |
| cctgaaaaan | aataatacatt | aatcccnaat | tatcccctcc | caaggttttg | ttggcccatt | 540 |
| ccatanttcc | accatctttt  | ttggnaaanc | cccatttttt | n          |            | 581 |

<210> 9833  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

|            |            |
|------------|------------|
| <400> 9833 |            |
| ggatcaggag | tcttattctc |
| aatccatgat | cccattctct |
| tagactaagg | gagtagccag |
| ctagcccagt | gctccttcca |
| aggcagggcc | tagttcacag |
| gtctcctcct | gcagacgccc |
| gcagacctcc | agagacagga |
| gtggaaggtg | tgcaaattgt |
| tcttttgaat | gactcccaga |
| ccatgatgga | ggaagctgag |
| tgcatcccag | gagcaggaca |
| ccacccctgg | ctgctccttc |
| ccacccctgg | ctgctccttc |
| atctgcggat | gtcctcagat |
| gtcctcagat | gtcccacaag |
| ttgtctgctg | caatatcact |
| ctcgcaaggc | agctactcca |
| ggggtgggtg | gggacnnnnn |
|            | nn         |

<210> 9834  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

|            |             |
|------------|-------------|
| <400> 9834 |             |
| gttgatatcg | agttttattga |
| tcgactatct | catttctacaa |
| tgaccagcaa | ttccacccaa  |
| aatgatcatg | gtagcattat  |
| gctgatgaat | ggataaagaa  |
| agaaatgaag | tagtactgat  |
| naangaagaa | gcaganaggg  |
| ccntagagac | agaaaacaga  |
| tgagccattt | accttcagat  |
| tcttcaaaat | ttaaaccatag |
| aacatctatc | cacacataaa  |
| caaaaatgaa | cagaacctag  |
| tcatacaatg | gagtaatttc  |
| tcatacaatg | accttgaaaa  |
| tatgattcca | tttacataaa  |
| ttacataaa  | attcccccat  |
|            | ncgc        |

<210> 9835  
 <211> 374  
 <212> DNA  
 <213> Homo sapiens

|            |            |
|------------|------------|
| <400> 9835 |            |
| ggtaaangca | ggatctcact |
| actcctgact | tagcctccca |
| gcttttctgc | taaaatgctt |
| atttgtttta | caaaggctct |
| aggtggaaac | natgccattt |
| angatcctcc | aataaccang |
| aatcaaacc  | aaac       |
| ttgtgcttag | ggtggtattg |
| attatagcag | ggagctactg |
| gaaatganga | nggtgaaaca |
| tacctctg   | tgaagtgctt |
| ctcccgtctg | taagaccana |
| tttcaaaaaa | aattttttng |
|            | tnggaagggg |

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<210> 9836  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 9836  
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acatcttatc ttgtatccat ggacgctcct tgatacatta tggtagatcag cagcaagtaa 120  
aaactaagca ggacaggcaa gaaagcaaca ctatgacagt aaaaacaata tggtagatcac 180  
ttttgtttcc ttttaagggg aaagtgttct taataattac tggtaggctca cagaactaaa 240  
gaaagtatat tagaacctca gtattcttaa caatgatctc tattggttgt tatttgtcta 300  
agaagtgata agccatataa ttacagaaa gcaagtcact gaatccttca aaaaacacaa 360  
cctggcaatg ttatcttcaa tgcaaaaata tgaagtggca ggancgtgat gaaaaaaaaca 420  
gtcttcgaaa acatcatgtn aggggaaccan ctgtgcttgt atagtctcta acttgttata 480  
naaatcaaac aactccctgt gactgaattc cccaanaact tcccnagcn ccttgaatct 540  
ccttgnctcc ncccaant 558

<210> 9837  
<211> 418  
<212> DNA  
<213> Homo sapiens

<400> 9837  
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ggggatgggg agtccagatt ccttctctga tgaggcaaaa aaagaatcaa gactcctgtt 120  
caagtaaagg gcagagggtg agagctagta ctcttattct agaaaggaag tagatacttt 180  
tctttgataa aggaatgaac ggtagactcc tagtttgtag aaaagggtggg aaagatgtga 240  
cttgtagttt ggtaaggaga tagggaagga attaaggcta ttactctgaa gaaagtggg 300  
gggccagggc tcctatTTTT ttgctgagga gatggaagat cagggtctgt attcaataag 360  
aatgggaggg gccagggatg cctggcaaaa gccttgact gtgaggtgca gnnnnnnn 418

<210> 9838  
<211> 592  
<212> DNA  
<213> Homo sapiens

<400> 9838  
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aatcttggct cactgcaacc tcagcctccc gggctcaagc aattctccta cctcaccctc 120  
ccaagtaact gggactgcag gcacacacca ccatgcccg ctaattcttt gtatttttagt 180  
aanacaggg tttaaccccg ttgccaggc tgggtctcaa ctctctgangt caggcaatcc 240  
acccgcctcc caaagtgtg ggattacagg cgtgagccac tgcaccagc caaaaaagtt 300  
tatctttcat gtttcagata aagccattgc tctaataata ataaaatatg atatgcaaac 360  
aaagtacat tggtagaatc gtacccacca aaaaatagca cttaaaatat gttttgcata 420  
ngtttttcag tgatctgatt tcaantatga tgaaagttaa tggaatagga aattatgaaa 480  
ctatactctc ntatatatTT aaatgccatg cnaaatttta aatttcctaa ggaattatTT 540  
aatgatccca cntgattgcc aatccctaaa attaccgaat ttattcaaaa gt 592

<210> 9839  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9839  
aatgaaatct tatcttttgc aacaacatgg atggacctgg gaggccatta agtgaagtaa 60  
tgatacagaa agtcaaaaac cacatgttct cgtaagtggg agataaacia tgtgtacacc 120  
tgacagtggg gagcagantc atagacacta gagccttcna aggtgggagt ggggtgagag 180  
atgggaaagt atttactagg tacaatgtat actatttggg tgagggtata ctaagcccag 240  
atttcaccac tatgcaatat atccctgtaa taaaagtac ataaatccat aaaaattaca 300  
aaaagttgct caaaaaagat tggtagtcag aanctgaatt ctagatgtgc tttttcaact 360  
atctcatttt gtaaatgtag tgtatgaatc cccaaattta acaatagaca atttttaaaa 420  
taccactgc ccaaattaaa anaaaccgcc ttttaaataat cccatttttt ngccacttgg 480  
gcnccccacc tgaatttcca anggattatt ggttnccnc cccnttaat gtttggctct 540  
tccccagcc gccgaaacca aaaagtttcc ttttgannac actccganat ccc 593

<210> 9840  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9840  
agtgggtgcag accactagtc actantctgg tgtctggctt aggtaaatat gtctttcttan 60  
atattctctc atcagaacta cagataggat aatcaactca tcgagtttgc cagggnnttg 120  
ctgggtgtag cactgaaagt ctacatgcc aggaaaacct catcttaggc aaactggagt 180  
ggttgatcac acaacaaaag atgattcttt ttgactcaat cctggacctt ctcatctctc 240  
tgcggtttta agtaccatct gtatggatgg ctggtgtatt ttgtttcctg ctttgacatt 300  
tcttttaagc tttggattca aaataagttt tgcaccttat ttttaatgcc tatcttatat 360  
tccttactgc ataaatcaga anaatctcaa tattaaataa tctaaatatc aaaacttcat 420  
ccactctgaa aaaacaattt cncctctgga tgctactatc tcattaaata accagccctt 480  
ccaaccaatt gctaaactcc aaaccctgga aaaaaggttn gggatttcct ccttatnccc 540  
tncaaaaatc catttncccn ctacaaangg ccttttanat ccaatatcca aat 593

<210> 9841  
<211> 581  
<212> DNA  
<213> Homo sapiens

<400> 9841  
actgtataat agttttatct ttctcatttt actattttta cattttatgc acaaataattt 60  
atctgcgtaa aaatagaaaa taactgtttt atgtaaaatt acaaaaaaaa ttaaaaccac 120  
aaagaaatac ataattgtta ttatgacagt ataagtgtcg ttgtcgttat ttaaagagta 180  
aaaatgtatg caaaagtcct cctcccattt acaaaagatt gagaattttg tttttcctgg 240  
cagcaagtga aatattgaag tatcaatat tttacaccct ttagatctga agacattaag 300  
ttagtcacag atttgttttg caattatgaa ttttaaaaca tttttgtgct atttcaagga 360  
tacactantt ctttcttaaa ggcagtagca taaaatgaat atggaaaaca gcagaactcn 420  
cnaaaatatt tgggtgtaca atccttttgt ttcatactga atatcncctt aatcagggga 480

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gaaaacacta acaattttccc tataccttga cggatncaaa attactgtga tcagccatta 540  
ctgaagatca cccnontacc atccgcccct tgttttccga n 581

<210> 9842

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9842

accaagttca taattttatt atactctgaa tagagatgat atttaaggag cagagaaaaat 60  
gactatacna aagattttata gaacattcat ttacatactg gatataattct ttacagtatc 120  
agaaaagtaa aaatatgcac taacaaggca ganaanacgt tacaaggat ttgatgctga 180  
naataaatgc acagtgactt ttaacatggc tatagcttaa cactggagga atacaacaat 240  
acgttctttt actgagtant tagtaggacc ctggctataa catgcgttgg gcacagttcg 300  
tgaactctcc cgcattttact ccccanggca gtacgtgcct gtccagcggg agccctggna 360  
aacaaaatgc ctgggaaaaac nttccttttc ctgtggccct aaaaccggtg tccacgggtg 420  
gggggctctc tcacggtttc tgaaccacac gtacaatctg tngatnacac acaccttggt 480  
ctgtttaatg cncatntttc ccaaaaggaa aaaaaaactt cctttccanc tctccaaaat 540  
cgtggaaact ttgcttcctt tggttcccca aaggactnct ncttnggg 588

<210> 9843

<211> 586

<212> DNA

<213> Homo sapiens

<400> 9843

ccacacagaa accaaccaca tttttactgc atctgctcca cgctggattc caacatgctg 60  
gcccggancc tggctggctg gaaacaactc caacaggttt ttcccttccc cgtcatgtac 120  
attattttatt ttgatccta ctactgtcc caagtccana ngcagttaca aaaaacactc 180  
ttgatgcaaa ccgtgagtgg ctacaacaca cggatggggg tgggcgcgat tcccacaaca 240  
gggagtggaa tccgggaaaa taatatatag gggcaanacn ccccttact tgctaaaant 300  
atatggaact caaaaccac aattgctttg ttttgtttct canttcttg antattttta 360  
actacttgct cttaacatta attncgtatt ttccncaaa tatctgacct gatttaaaac 420  
atttttgttt gcatacatct ttttgtnttg ccccttatat ttttccnct gatttnggga 480  
taaaaattta atttctgcct aaaaaaaaaa ccttttactc tttttaaaaa naacctccct 540  
tcccagcnc ttctntggtt cctttccaaa tnttccacca tntttn 586

<210> 9844

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9844

agaaaactta tttttattct atttatattga acacattgta tcacccccac tcatagctgc 60  
actccaaaac agttcttctg ggaagcaggg ttttagtttt actgaacatg aataaaaaat 120  
ccaggcagaa ttcaaaacca ggggggaaaga gtcaaggaag caaacttgct tttcagaagc 180  
aagatattta taaacagtaa tagctgagaa tcatataatt tgtttctgaa aattaccttt 240  
taaatagggc ttcattttac atttgcatag tatatggaat tttgtaagaa gcattaaatt 300

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| tcaaataact  | tgatgcaata | aataatcatg  | gaataactcat | tgtccaaata  | taacagatag  | 360 |
| agcatgtcca  | ctaagantaa | tgttatctt   | cttaaaataa  | aggggaaaaat | ctaagttcct  | 420 |
| tgaagcanaa  | actgtgttgt | tgactatggc  | agtcccgtgc  | ctaccatgat  | acctgaaatg  | 480 |
| antcncctcca | acantgactt | ttgaaaaaga  | ataaagaagg  | attgaagacc  | aatttttttaa | 540 |
| ccntncttgg  | taggaatttn | ggcgggtacaa | taaaacaac   |             |             | 579 |

<210> 9845  
 <211> 583  
 <212> DNA  
 <213> Homo sapiens

|            |             |
|------------|-------------|
| <400> 9845 |             |
| ggaggtaaaa | gtgagtttat  |
| agcaactggg | aaatcttatcc |
| gcttggttgg | gcactcttccg |
| gaaaggctaa | actagagctc  |
| acatttctgc | tatgtttgtg  |
| taattaattt | cagagctgga  |
| gaaaagcagc | acgaatactc  |
| aggccattta | attgaatcag  |
| taanaatttt | gaaaaaaaac  |
| attgttaaat | tattatctcc  |
|            | actctcctct  |
|            | cnattncata  |
|            | anc         |
|            | 60          |
|            | 120         |
|            | 180         |
|            | 240         |
|            | 300         |
|            | 360         |
|            | 420         |
|            | 480         |
|            | 540         |
|            | 583         |

<210> 9846  
 <211> 586  
 <212> DNA  
 <213> Homo sapiens

|             |            |
|-------------|------------|
| <400> 9846  |            |
| acaaccgtat  | gaaagaaatt |
| ttccacagtc  | tacaggtaaa |
| gtaattttat  | gcagaagatg |
| caagacataa  | ggaagaaag  |
| aatcatatct  | agcagtaaat |
| ctggccaatt  | ttcagtagac |
| aatgcttcct  | ttgtgaattg |
| ncaatgtntg  | ttgttgcaat |
| gccantgttn  | gcaaaaaact |
| tonggaaaaat | tttcccaatt |
|             | ttgttaaaaa |
|             | aaaccccaac |
|             | cttccg     |
|             | 60         |
|             | 120        |
|             | 180        |
|             | 240        |
|             | 300        |
|             | 360        |
|             | 420        |
|             | 480        |
|             | 540        |
|             | 586        |

<210> 9847  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

|             |            |
|-------------|------------|
| <400> 9847  |            |
| ctctaattctt | gacgtcacac |
| cttctgcttg  | atcgattcag |
|             | ctattgatac |
|             | ttctgtatgc |
|             | ttcacgaaag |
|             | tctcgtgctg |
|             | 60         |
|             | 120        |

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|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| tgtttttcag | ctccatcaga | tcatttatgt | tcttctctaa | agtggttatt | ctagtttagca | 180 |
| attcctccag | ccttttttca | tttttagctt | ccttgcatg  | ggttagaaca | tgctccttta  | 240 |
| gctcanagga | gtttgttatt | acccaccttc | tgaagcctcc | ttctgtaaat | tcgtcaaaact | 300 |
| cattctccat | ccagttttgt | tctcttgctg | gcaangaatt | gtnatccttt | gcaagaaaaa  | 360 |
| aaggnttcct | ggttttggaa | atttcnacc  | ttttggcann | ggttttcccc | cccccccatg  | 420 |
| gaattaatct | accttnggtc | tttaatgccg | ggtgaacctc | ccgaatgggg | tttngttttg  | 480 |
| naaattccnn |            |            |            |            |             | 490 |

<210> 9848

<211> 310

<212> DNA

<213> Homo sapiens

<400> 9848

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gaagatatta | aaattcaggt  | tttattat   | gttcagttat | aataatttaa | gttaatat   | 60  |
| gctgtattct | cagagcaaan  | atgtatttct | gtaccactgt | cctgtataaa | tttgttaccc | 120 |
| aagatagtga | ctgggtatgaa | aggagaggga | agagggtgac | agatggaaac | gattgctgta | 180 |
| ggacagtcca | tctggccaga  | tgcgggtggg | gaggggagaa | aaantgggag | ananatggtc | 240 |
| ctacanatgc | tcccntgggt  | aaatgatggg | tgcacccctc | cctgcantcn | ggctgtgcct | 300 |
| gtacttcaca |             |            |            |            |            | 310 |

<210> 9849

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9849

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| cagagcatgt | agcaaattta | ttatccgtgg | gtgagaaact | gttacatgaa | gacacacagc  | 60  |
| aggggaaaga | antcagcatt | taacagataa | tctgtgcttc | tcagacaggg | gaaaaataaa  | 120 |
| aacactgtgc | tgcattataa | acagganang | gaagaatcca | gtgaanaacc | cttaaagtga  | 180 |
| atgtcgtcag | ctaacatagg | catctcatcc | aaagaagact | tcaacagagc | agttgtttga  | 240 |
| gttttcaatc | atcagtattc | tgagaacttc | aagtgtgtat | tattagtgtc | aatgctatcc  | 300 |
| atgttccttc | tctattttct | atgatacgag | gaaatcacat | gaagctgcct | taagtgggtga | 360 |
| aaataaatgg | attctat    | tgcagtattc | ctgcagtcct | ttaaatcaca | cacgaatact  | 420 |
| gtccccaaa  | ttatcatcan | cttctgcctc | anaccttcat | gaaataactg | aaacaatgtg  | 480 |
| gggtgtctnt | taaaaaacga | atggctaacn | tccccccntt | caatntttcn | cccccccttt  | 540 |
| cna        |            |            |            |            |             | 543 |

<210> 9850

<211> 530

<212> DNA

<213> Homo sapiens

<400> 9850

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cccaaggga  | gttaatacct | ttactaagtt | acaaaacttg | ggcaaataca | tacagtactc | 60  |
| ttttataatg | aaaccatact | tttggtggan | tcatgttact | ttantganaa | ttttcacncc | 120 |
| aaaaatat   | aantnccaaa | tcaaaacact | ggttttta   | ggtggtttat | ancataataa | 180 |
| ggtattttgc | acaaaatata | ttttaaaact | acacaatttc | tccttttaag | tgancctcct | 240 |



|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| tgtgcaagct | gctgaantgt  | acagcaacag | ggcaatgggc | gtctatagga | ggtggctctg | 300 |
| ctctgttctg | gggttgggtcc | aaagtcaggt | gganttccaa | tgtatgaaaa | gcttgaaaaa | 360 |
| tctaccttaa | gganactgaa  | tatcaatacc | agtttccaag | ganttccttg | tgaaattttc | 420 |
| acanaaatac | tggaaccct   | caaaatcaaa | tantaatttc | aaacaacatt | aattccaaat | 480 |
| aatcctttta | tttaaaagnc  | ccnccnctnt | tttaatnaat | tccanaccct |            | 530 |

<210> 9851

<211> 493

<212> DNA

<213> Homo sapiens

<400> 9851

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| aatgtggaga | aattttttatt | actttgaatg | ttttagaatg | caggtagaan | agacccggag  | 60  |
| ctcaaatagc | ttaaataagt  | aggaaatcta | ttggctaata | caactggaaa | tgccggagata | 120 |
| gggcaggctg | cagggctggt  | ggctcagggc | tcagggggcc | ccaactctct | gtgctgctct  | 180 |
| gaggcactgc | cttcaatctc  | aggttggcag | cacaaagctg | ctganagtcc | cagtgtcacg  | 240 |
| cccanacccc | acaatgccag  | ggaaggaaga | caggttctat | ctaanganaa | atcttccatc  | 300 |
| cccacctctg | cggactttta  | ctcacttctc | agggacctgc | ttgggatctc | aggcccatnc  | 360 |
| ctnaaccatt | tnttggcaaa  | caaaantgaa | tattttttac | accaggcagg | cacccttgga  | 420 |
| ttgnaagcac | ccacctccaa  | ttctttcagg | aaaaaaggga | aantgggaac | tncncaaaca  | 480 |
| ncaaccacn  | tnc         |            |            |            |             | 493 |

<210> 9852

<211> 597

<212> DNA

<213> Homo sapiens

<400> 9852

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| acacaatata | tgatttttatt | aataaatagt | gcaaaagcat | cagtgataac | tgtttgaaca | 60  |
| ttaaattttt | ttaacagcca  | tgtcttggca | ttagttaata | ttgtgcatat | tggcctctat | 120 |
| ggcactacaa | gtaaacagat  | gaaaatattg | cccattttca | tgcacaggta | ttcagctata | 180 |
| acaccattta | caaatacatta | tgaacaagat | aaattctgca | ataatattca | tttgatggc  | 240 |
| cacaattaaa | tgagtgttat  | atcaagaaat | agcctatgtt | caatatactc | cagatgtcag | 300 |
| attgtaaaat | gtaatgttat  | ttaaaactta | attctttatt | ttccttaaag | ggacaccttt | 360 |
| tgtgtatttg | ggtactcaaa  | tgaaaactta | ggaatgcatt | ctttgaccat | aataacaaaa | 420 |
| ttcacacaaa | agaagtgtga  | tgcttcctcc | tctaaaagaa | ncaatacatt | tgctcataat | 480 |
| ctctctctcc | aggtacattt  | ctcatattat | taatgaaaat | gcctacnaac | accaacacca | 540 |
| aaattctgtc | ttccagggaa  | aggttncaat | ttaaaaanat | tggtcnttnt | ttnaaaa    | 597 |

<210> 9853

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9853

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccaattctta | ttttattaaa | aaaaatggaa | ataaagttta | aaaaatcaat | caacatggcc | 60  |
| tttaatttta | acaattttta | cagcaagtgg | tggggggagt | tctcaaatga | ncaactggag | 120 |
| ctggaagcac | ttctgtggtc | aagcaggcag | cccatggggg | tgcatcttcc | tgttggggga | 180 |

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| tcatccattt | tcttcaatga | atagttttta | gtcttgtcaa  | atgctcacac | agaggcccgc | 240 |
| tattaaggag | gcanacaggc | aacattcaat | acgaaggcag  | gacaagctca | gccccgctcc | 300 |
| ttcattcggg | catgtgtcat | tagggatgac | attctctgaa  | ggctgcccgg | cttgaatggc | 360 |
| caaatccctg | catcatggct | ttctttaatt | ccctctgctc  | ccaactcaca | aaatgangac | 420 |
| ctctctttta | aaacaaaaag | cactgttctc | aaagggtatac | atttggaact | tccaataatg | 480 |
| aaaacatctc | ttgcttggca | ggtggaatat | agcaattttg  | gatttttaat | catgcatggg | 540 |
| gcggaattaa | atttcttcca | gggttntttt | cctaaaatng  | ga         |            | 582 |

<210> 9854

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9854

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnn   |            |            |            |            |            | 547 |

<210> 9855

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9855

|          |         |        |         |        |         |         |         |         |     |
|----------|---------|--------|---------|--------|---------|---------|---------|---------|-----|
| gcatttaa | tttcaa  | taggca | tatttc  | actttt | ccaggt  | tataatt | ttttct  | tttta   | 60  |
| aaaatgcc | taatan  | atac   | atgtcat | tacac  | aatccac | agaa    | atgtnc  | aaac    | 120 |
| actgagag | taaact  | gtgg   | actttg  | gggtg  | ataatga | gagac   | attgat  | gttag   | 180 |
| tgtaacaa | acaccac | tgt    | ggcgta  | agat   | gtcaat  | tagtg   | ggggc   | actct   | 240 |
| ctcaattt | ttctga  | acct   | aagact  | gctc   | taaaata | caaa    | agtctat | ttaa    | 300 |
| aaaatgg  | aaa     | aacag  | taata   | acaaat | gccc    | cttgaa  | acca    | ttttt   | 360 |
| gtcatctt | gc      | ctga   | agaaaa  | agaat  | atgta   | aaaaa   | taatt   | tctaaa  | 420 |
| tacaaaa  | atc     | acggg  | acctt   | gaatat | ctta    | acaagt  | ccta    | attatt  | 480 |
| atcactac | tc      | cgaa   | anatgt  | nacaa  | agaac   | ccctcc  | ctac    | catatta | 540 |
| ccaaaaa  | ana     | ttttc  | cttnt   | ttcngg | gaan    | cnggaa  | accc    |         | 580 |

<210> 9856

<211> 473

<212> DNA

<213> Homo sapiens

<400> 9856

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| ganacaaggt | atcactttgc  | tgcacaggtt | gaantacagt | ggtacagtca | tggctcactg | 60  |
| tagccttcac | aaacccagtc  | atttggactc | ctaggttcag | gcaatcctcc | tgctcagcc  | 120 |
| tccaaaatan | ctgggactat  | aggcatgctt | caccatgcct | ggctaatttt | tttttttta  | 180 |
| aatagggaca | tgatcatgct  | atgttgacca | ggcaggtctg | gaactcctag | gctcaagcaa | 240 |
| tcttccact  | ttagcctccc  | aaaatgctgg | gatcacaggc | ttgaatcact | gtgccagcg  | 300 |
| ganaccttct | gtttttctcag | ttaancangg | aaagtgtntn | aaaggtgaaa | tgcangtttt | 360 |
| caactgtcat | ctgaaaaaat  | caaaancaaa | tctgctaata | aaacatacaa | aaatgggtag | 420 |
| gccntattaa | atggctattt  | aaattttttg | tnanaaattt | caattnttnt | can        | 473 |

<210> 9857

<211> 470

<212> DNA

<213> Homo sapiens

<400> 9857

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| atgaatgaag | agtgtgctat  | gcaaatgagg | gcgattcaca  | aaaagagaca | gaacatggct | 60  |
| gccacttctg | cttctacact  | gcactgacac | tgcagcaatg  | tacctccttc | tacacccgct | 120 |
| cagcaaaagc | gtgtgttttg  | gggtggggag | ggagtaaggg  | aggaggaaat | gttgtttggc | 180 |
| ctttctctan | ctatttttacg | ttaaacagga | ctcgggtacag | actttaaaaa | gttatttcaa | 240 |
| aaaggtctga | cttttagtaat | gcactgtatt | taaaggaatg  | catccaaatg | actaagtcct | 300 |
| aactcactta | actctttcca  | accctccgaa | nataaacaaa  | agttgaactt | aattacaana | 360 |
| aaacggatgc | taatattctg  | cttggaatta | aatcccttct  | caatanaaaa | gtgttgccna | 420 |
| ccattatttc | tccccgcanc  | tgtcncntta | aagcaaaacn  | tttaaaanac |            | 470 |

<210> 9858

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9858

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| agancatttt | aatcagtttt  | attgattcat | gcttccagtt | cttattcagt | taaaaacaag | 60  |
| ggnacattaa | atacatcctc  | ttattgctct | ataaatgcat | gcagctcatt | ctgtgtatca | 120 |
| aaagtaataa | ataatggcca  | taaaacacca | agacagttat | aaaaatgaca | accagcctc  | 180 |
| aaacatagta | tttaacagtc  | cagtctagaa | caataaccca | acatgataca | taaaagtgcc | 240 |
| acatatgaaa | acatgcggtg  | tgtatatcca | ctctagcact | gagcttacac | ttgctattta | 300 |
| aaaacatagt | agggtttttt  | cactccttca | aaaagggtga | catgatgcaa | acatcgcaag | 360 |
| ttatagcatc | attgacttta  | atattacatt | catatgccaa | aaatctttac | agatacataa | 420 |
| gaanaaaaat | aacatcaatg  | atgaccctac | agtatattta | gtaaaagtga | naatgaattt | 480 |
| ttttgttggt | caaaaanaaga | anctactttt | ttgaaacaga | caagccaanc | cgaaactgaa | 540 |
| nccganaaaa | acatgctttt  | ataccaaaaa | cnaaa      |            |            | 575 |

<210> 9859

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9859

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60 |
|------------|------------|------------|------------|------------|------------|----|

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnn     | 595 |

<210> 9860

<211> 583

<212> DNA

<213> Homo sapiens

<400> 9860

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| attttttttt | tttttttttt  | tttttttgca | nacgaagttt  | caaccttttt | attcaaagca | 60  |
| gcttctcaca | atgtataaat  | actgcatatt | agcacacatg  | aaaaatacaa | cttctaaggn | 120 |
| accanaaat  | gtgttcatac  | acgttacagg | accattcaca  | aananaagtg | acaatttgct | 180 |
| ctaaacagtc | aggatttgat  | aaatcanaaa | attattatcc  | ctcagtactg | cacccagttc | 240 |
| cagtaaatat | ttacaacatg  | gtganaaggg | gtcagctgta  | ccttctttat | aattctatga | 300 |
| agtactcana | cttacaataa  | ttcagaacta | gttaaanact  | ctcccntgat | aatctggcaa | 360 |
| aataaaacaa | gtanccta    | tttgcaaagg | tctcgggtgga | ttttggtgtn | tgctacatcc | 420 |
| atgatcaaat | ccaaacactc  | ctanggtggg | ctggataant  | ttttggtagc | ctgcttcatt | 480 |
| atcggaattt | ggtaataanc  | cttaccacaa | aaatacanct  | cttcacatca | tcattctcac | 540 |
| tggtcatgga | tcattgatccc | cctgaatgaa | aatggaaaaa  | aat        |            | 583 |

<210> 9861

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9861

|           |          |           |           |           |           |     |
|-----------|----------|-----------|-----------|-----------|-----------|-----|
| acataaatg | ttatttat | gatattctg | agaagtc   | acacacaa  | tgattctg  | 60  |
| tttgcgaga | atttaagg | atgatgaaa | tgggtaaaa | atagattta | aagggtgat | 120 |
| aaagtatt  | gtataat  | ataatggta | atatgtg   | tgaattt   | gaaatca   | 180 |
| gaatatac  | cataaagg | taattcca  | tcacaaaa  | ataaataa  | aggagatt  | 240 |
| gaattccag | atagaatg | gacaatat  | aaaatat   | atgtcatt  | aaatgtat  | 300 |
| aatcaga   | ngtgcca  | gacctcag  | atagtgt   | caataaaa  | ataaaga   | 360 |
| tgacgctc  | aactgtac | cagctgat  | tgctcctc  | aagagcaa  | catacaca  | 420 |
| ctggttcc  | tctacaga | tcctgga   | ggactaca  | gggaataa  | agggttgt  | 480 |
| cnggaagg  | gtccncnc | ttggattg  | agggtagg  | caggataa  | aggccggt  | 540 |
| taacattcc | ttggtntt | agggcga   | ttcata    | gcaant    |           | 589 |

<210> 9862

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9862

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggtttaaata | atccatttgt | attgggtctt | agtaagaata | ctactactag | taactattat | 60  |
| caagcaacta | ctgtgtcatg | tacttttcac | acattctttt | aattaaaaac | tctccactaa | 120 |
| cccttacagt | tcagtattat | ccttgtttta | cagatgaaga | aaagccaaag | agaagttata | 180 |
| taactggcaa | gtttctctgg | ctccccgcct | gcaccactgc | tcgccagatt | gcatgaagag | 240 |
| ggaggcagct | gtaacacctc | atcccgttga | tctccangga | actcanatac | ttgtttccac | 300 |
| gtccaggaaa | ccgcaaacta | agctctttga | ancatcagca | aancttgcta | antgacacgt | 360 |
| gaaatgccat | tggatacata | ttctaactct | tcaggtataa | aggacagtca | nactgcctca | 420 |
| tctgttcac  | caagggatct | ganaacanac | attcctccag | tnttgaacat | ccacatcctt | 480 |
| atnggaaaat | ggtccaaaaa | aanaatggcc | cccnttttaa | aanatttttt | ttagggccga | 540 |
| atttttttta | aactaatttt | cccaaaaatt | tttancnttt | ttatgcccc  | c          | 591 |

<210> 9863

<211> 524

<212> DNA

<213> Homo sapiens

<400> 9863

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| cctggcataa | gacattttct | atgtattcaa | aataagaaaa | ggaaatggtg | aatatattga  | 60  |
| caagtagcag | tttgaattat | aatgacaatt | ctttaggatt | ttatgtagct | tgcataattta | 120 |
| acatttaaat | atattgttct | aggaattggn | tgataaaact | agaaaataaa | gagaaattat  | 180 |
| gatcaccatg | tgttcactct | tcagactttg | atctatgaat | cagctcactg | agagagatac  | 240 |
| ttgaaaactt | ctcttggttt | cttctaattc | atctttggaa | tgtcctccac | ggatggatgc  | 300 |
| cttgacgttg | aaacataaat | gctataaaaa | ttaatcccc  | tagcactacc | gctgttgcca  | 360 |
| cggcaataaa | cgtgtgtcct | ggggaatggc | aatggtgcct | catcaacata | aatctgaaat  | 420 |
| tctcaattaa | gttacaaaaa | nttctcctga | aatgacggnc | cctctaaant | ggaaaagtgc  | 480 |
| aaanccttta | tgcttaantt | ganacctgaa | ggattatacc | tgcn       |             | 524 |

<210> 9864

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9864

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| acaaataaag | catgtgttta | ttgaaatagt | acctctatga | anaatacttt | aagaatgtga  | 60  |
| atgggggttt | gtttttgtaa | actttcaatt | accttccctt | ccctgaccct | gccagggtatt | 120 |
| catctcctgc | ccagatccca | gggtggcctt | cctgaaatga | acgctccatc | tgaattttct  | 180 |
| tctccccgtg | ctctcaagan | aatgcccagg | ctcctaacca | tgtctcanac | tgccctgcac  | 240 |
| ctcagcctct | gtctctgcac | ccccaggcat | gttcaacctc | ttgcaattct | tgcattcccc  | 300 |
| atagttcatg | acccaacctt | tgtcccccta | ccagctggtc | ctggaatacc | ccccaggctc  | 360 |
| gtttgtgaac | ctcangagta | ttcatgttcc | aaagtgcgan | cactctggaa | ccgcctcccc  | 420 |
| aagctgctgt | gggtctttgc | tgggtcccc  | naatgttcaa | gtctgtctcc | cccangggcc  | 480 |
| caatnccact | ccanaatntg | ttttctcccc | ccannacta  |            |             | 519 |

<210> 9865

<211> 433

<212> DNA

<213> Homo sapiens

<400> 9865

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| aggtttttagc | agcacttttta | cttccacatc | caaactccct | gggtcctcac  | aacagccctg | 60  |
| tgaggtaggt  | agggtaggaa  | ggtttcagag | atccccattt | atagatgagg  | atgctgaggc | 120 |
| acagagaggt  | gaagtgactt  | gtccaaggtc | atacaaccag | cagtgtagag  | ggctcaaagc | 180 |
| cagcattcct  | ccacttgaac  | tcctgcgctc | cggccctctg | gcagttccca  | catcctctct | 240 |
| attctctctg  | tgtcccccac  | cctctcaact | ctcctgggtc | tacagggacc  | ctaaaggcag | 300 |
| cctggcagct  | gagatttttc  | aggaatggca | actggggtag | gcctgggtcaa | ctccagatag | 360 |
| gagctgancc  | tgaagagcat  | ggggccagct | ttgcttctcc | ccattcccat  | tgggatgaag | 420 |
| ggcctatnnn  | nnn         |            |            |             |            | 433 |

<210> 9866

<211> 532

<212> DNA

<213> Homo sapiens

<400> 9866

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| gtagttcaga  | anccaaccct | tattttatta | aaatgtgtnc  | aananatggg | gaaagaaaag  | 60  |
| gaccanactg  | tactgtggcc | atgtncacaa | aggcatgcac  | cacatcccag | ctctgtctgcc | 120 |
| ctgggctgtc  | ccacaggcag | ctctctanaa | cttgagagcc  | tcaaaagggg | cctcatgaag  | 180 |
| cccaaattctt | ccctggtcag | ctgatggcat | tcgtataact  | gaaagttagg | gaagaccacc  | 240 |
| angtcngtgg  | agtggagagg | ttttgtatat | ggtcttcttt  | gaaaaaactt | acttcttgca  | 300 |
| agccctggca  | tcttccaatt | ggctgtccta | gtaatggacg  | cggcatcagc | ctaccaacaa  | 360 |
| tggangtcta  | ctnccccctc | ntcgaatttt | gttcctgaaa  | tcanaaaccc | cggccccaccc | 420 |
| aattccacag  | gccaatccac | ntccaggccn | cccttgntcc  | ccccantgaa | ccccctttcn  | 480 |
| acggattttc  | ggaaaccctc | ctconggaat | ttctttnaacc | ttggtccctt | cc          | 532 |

<210> 9867

<211> 576

<212> DNA

<213> Homo sapiens

<400> 9867

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| aagaaaagaa  | caacaataat | aaatctttat | tgagattttt | taacaaaata | atttttgaaa | 60  |
| acaaaagctc  | ccacatgtaa | acaagaacgt | aaataagtta | gatggcatta | ttatgtacat | 120 |
| tcaagaatca  | aaacatgttc | tggtaaacat | tccataatcc | ggtaaaatgt | tttcacccat | 180 |
| cactgttaag  | agaaactgtg | tatttaatac | tatcaataac | aaaacctaat | ctttgaacat | 240 |
| tataaaatgg  | tttacggaat | ataaactata | cagtttagtt | tttcattcct | cctagcaatc | 300 |
| cgtgtcacat  | gtatactagt | cctaagangt | attttgtcag | tattagccca | aaangtcccc | 360 |
| cacccccaaat | naaccagttt | acacatatct | ccccagttt  | taagggtggg | gatgtgttga | 420 |
| aacccatata  | ttacaacatc | ctttttccaa | actaacctaa | tcctaattcc | tatcctacta | 480 |
| atccggggng  | ccccatttta | tctcccgctc | acccttcctt | naaatccnng | gngggttccc | 540 |
| cttaaaaaat  | ccgccgatcc | cnttttaana | taattt     |            |            | 576 |

<210> 9868

<211> 505

<212> DNA

<213> Homo sapiens

<400> 9868

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| gacggagtct  | gtctctgtcg  | cccaggatgg | agtacagtgg | cacaatctca | gotcactgca | 60  |
| atctctgcct  | cccaggttca  | agcaattctc | ctgccttagc | ctcccaagta | gotgggatta | 120 |
| cagggtgcctg | ccaccacgcc  | tggctaattt | ttgtattttt | ggtagagacg | gggtttcacc | 180 |
| atgttgccca  | ggctgggtctt | gaactcctga | cctcaagtga | tccaccccca | ccccattgg  | 240 |
| cttcccagan  | ttctgggatt  | acaggcgtga | atcacgcgcg | ccagcccaaa | tcgccgaaat | 300 |
| ctttatctcc  | taccttgatc  | tctgtagcag | aaaagaacag | tatanatata | aattgtcatc | 360 |
| aacagatgca  | acatatcttg  | tnaatcaata | tattttcaag | tgaggctctt | gaatcacctg | 420 |
| cactgaaatc  | atctgtgatg  | cttatcaagc | atgcagatct | caggancntc | nctganttcn | 480 |
| taaatctcnt  | ctctggangt  | taaaa      |            |            |            | 505 |

<210> 9869

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9869

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| caaaggcaaa | taaaataagt | ttattgggat | gtaaccccat | cataaattga | ggagcatcca  | 60  |
| tacggggcaa | gctataaaat | ctggaaaatt | taaatcaa   | taaattctgc | ttttaaaaaag | 120 |
| gtgccttaag | ttaaccaagc | attttgataa | cacattcaaa | tttaatatat | aaaaatagat  | 180 |
| gtatcctgga | agatataatg | aagaacatac | catgtgtata | aattcagaat | acgcttttta  | 240 |
| cacaaagaac | tacaaaaagt | tacaaagaca | gccttcagga | accacactta | ggaaaaagtga | 300 |
| gccgagcagc | cttcacgcaa | agcctccttc | aaagaagtct | cacaaagact | ccagaaccag  | 360 |
| ccgagtcctg | cctcggggct | ccgtgttact | ttcaacacac | cgtggacagg | ggangaaatg  | 420 |
| ggttctgctt | gctgaccacc | ancctctgat | gctgatgcca | tatgttncct | ttgacgtgtc  | 480 |
| catgtttatc | cagttagccn | gaatacctga | acttcntcca | tttcncgtcc | ccccccgctn  | 540 |
| aaattccagg | ggnncccaaa | aactcccaaa | aacctngggt | tttttcctt  | acaatt      | 596 |

<210> 9870

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9870

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| aacaaataaa  | attctttatt | taaattttct  | ttgtggggaa  | aatatttttc | tttaaagcac  | 60  |
| acttaaaagt  | aatttgcatt | tacttcctgt  | aaagcatttc  | catttcacaa | ttagcaaaaac | 120 |
| taaaaggcta  | tgtctcttca | tgcattttatt | tttgttagaa  | aaatgtccca | tgggtgctatc | 180 |
| aaaccgattt  | taaccatcat | caagcttaac  | tttgctctctg | ttgacaacat | gactacaaaac | 240 |
| atgaatcaaa  | aaggagttaa | ggaattttta  | gccataaggt  | ttcaattata | gcttaccat   | 300 |
| tatgtaatta  | gctgacaaaa | atcaagtctg  | atgtagaata  | gctgtcatct | acttaactgc  | 360 |
| agataatcat  | ggcattttca | tttaagatga  | totgaactta  | tgaaataaag | gatccagtcc  | 420 |
| caagaactca  | ataatctctt | atgttttctt  | ttgnaagact  | tatttcaaat | attaactatt  | 480 |
| tcgggtgcctg | aatggaaaaa | tataaacatt  | aactcnaaaa  | naatgttgta | ccgggtttgga | 540 |
| atccactngn  | actttaaccn | cngtgnaaaa  | accgaaagg   |            |             | 579 |

<210> 9871

<211> 594  
<212> DNA  
<213> Homo sapiens

<400> 9871  
ctgtgttaca acaaagcagt ttatttgtga tcagtgtttg agactctata catccttcac 60  
aaatttaatt ttacataatc tgatacgtct cttaaaactt aaactttgaa ctgctagact 120  
tttatttccc tanaacagaa gggctggtat aagttatttt ccagaaatga ggtaccgttt 180  
tcacagaact ggtttctttt ttttttttca agttttanan aactaaattt gcatttgtta 240  
aaatcaaaaa gtaggaaaga tgttctttac aaataatttt gatcaagtat gtgttcaaag 300  
aaagcaggat aaaaaggctt tttctctaac attctgtgtt gtactgtatt gttgttcaat 360  
aggaattanc ttctgtcatt tgctaaaaaa atgantattg gggaacagga tatgttggaa 420  
atttcataac gggtaacaga accattctct tgggtaaacc ataagcangg gcancgtgtc 480  
tgtaaccata tgggttttcc ataccctgna actatttncc agaacaactg tccccacaa 540  
aancccccct gttnaaatc ccccccccg ccccaaaact ngnatggtgc aan 594

<210> 9872  
<211> 479  
<212> DNA  
<213> Homo sapiens

<400> 9872  
caaggnagat atttcctgga cttgaataaa gtgttttttg tttgtattct cattccatca 60  
gtagtatgac ttagggcaag agccaaactcc tttatgcttc atttttttta atctaataga 120  
tcaaggaaat ggaaaccggc tcaatagggt gtttaaagct taananatgt gtgaatgcac 180  
ctagcaccta ctanacacaa caatgagcct gcatttccgc aagtaagcca ttcctacctc 240  
cttacccccc attccaatta atgtttgtct ataanaatat tttaaaattc aagagccaat 300  
gtaaaactct gtaaatatta tcttgcatt tatagagacn accacaaaag tttgcaatga 360  
tgcanatgac atccataatg agtctcttaa atgaagggtt ggcangcaat acaggctctt 420  
tgaataaaaa tntccccagg aaaaataact gcaantcnag ccccaaacc atcanntnt 479

<210> 9873  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 9873  
ccacaaggga atatcatttt attactgtaa tcacaaaatc gtaatttctg tacaggaatg 60  
tataagtga cattattcaa agcattggta atncactnca taaanagggt aaacatacta 120  
canaacatat tgtaaanaaa aaatattgta aaatttntct gtcttgcagt gcactattta 180  
gtgcaagtat ttaaaacaca atagtgttca attcancaa gtattgcaaa atgtcatgcc 240  
acagtccact taattcaaaa agggtcagga catgcacctt gtaataaaat gtcaaaatgt 300  
gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt anaaaaaacc acatgtaatt cataaaatat 360  
atagtgggtt atttaaatgg ttttaaatga atttccctgt ggaatccacc ataactggaa 420  
cacatcccag ggtctcctta acggcaacaa accttatgct aaggcaatgg ctttgggctc 480  
cgggttagaa atccncccca ttttttnac cccctttgnt tntntttgaa acaatgaanc 540  
caatttctna a 551



<210> 9874  
<211> 530  
<212> DNA  
<213> Homo sapiens

<400> 9874  
gggaaaaatg taattttattt gcaactgcttc cattctttcta ctgtagtggtt aggacttaac 60  
ataagcatca ctcttctattt tcctattttac attcttttgg aatattactg caaataacaat 120  
atacaattta aaaaaactta tgggggaaaca cagcttatgt ttttttctcc tctttacagg 180  
cttctcagta tcattcgact tcaatggaaa tttatatgga cattttctgt acatatctta 240  
aaaggcagan attacactga taaagcctaa agaatcctgc acaaatacaa tacagaaaac 300  
agaaagtaca gaacnatggtt atttggggta caaatataaa caatacagta ccatttgagt 360  
nactgagcaa cataataccc atactttata gaaataaaaac tgcaaacctg gagaatgctc 420  
tgacaaatat taaacattat ataacnratg aggtaaatgt tccttgggtct cttganaagt 480  
tatttaagtt ttaanccatt gacttttgaa acntctccct tacntttnaa 530

<210> 9875  
<211> 475  
<212> DNA  
<213> Homo sapiens

<400> 9875  
antttaaaaa caacaagcat cctttattct ccttccaatc tcagtgtcca aaagctacgg 60  
ttaacangtt ttcnaagtgc aaatcatttc attcctcnaa agccanangg gaataaaaaac 120  
tgtacatcat ctccaatcca tattcatcag gancgccctg gggcttgtca tcctgtctggc 180  
acggggccag gtttcanggc ctggcgga aaagtctgta ngctttggga cttgggtgtct 240  
ggccccntga natnanatta gttctccnat aacctgaatg cctcttgggg aggcggcagc 300  
acgcaggcgt ataatccctc tagacancca gatcgggcgt ggggtggantt taaaccccac 360  
gatgttctaa cagccacaat naaaactggg ggttngaagt tanaacctct naacnagaat 420  
tgggatttnc ccaagggaat aaggggggtt aaataatcca aaaggccna ccatt 475

<210> 9876  
<211> 471  
<212> DNA  
<213> Homo sapiens

<400> 9876  
acattttaaa gacattttta ttgagctaatt tttacaaca ttgcttttagc tgggtgacagc 60  
tgcccaaac caaaacaaag ccatcatgaa tgctattcaa catcctcaat gtaatccagt 120  
atgtttttgt acttggaata tagttaaact tttgacatta cataatcaag caaatagcag 180  
tgcatactat attattcaaa aagactttat ctatttcatt taaaaaatca agttgcaagt 240  
ggcctcagct ttatcaacaa tcgtagtgac acattccaca cttcatgctc tcaaaaataaa 300  
aagtgcccta aaactaactc taagtttttt agtcactgac attaatacta accagggttac 360  
aggaattgaa gtttaacatt gtacaatata agcggcaata agttactgat atctgctgac 420  
aaattccnnc ccaactaaat atatcctgan acntncaaaa ananatttgg t 471

<210> 9877  
<211> 560

009270"59462960



<210> 9880  
<211> 578  
<212> DNA  
<213> Homo sapiens

<400> 9880  
gctgttggtg cttgtgcttt tgggtgccata tctaanaaac attgccaaat ccaaggtcat 60  
gaanatttat tcctgtatatt tcttctcnaa gttttatggt tttagctctt acatttaggt 120  
ctttgatcta ttttgaatta atttttatat atggtagaa gtacaggtag aaattcattc 180  
ttttgcatgt gaatattcac ttgtcttagc actattagtt gaagacactg ttctttcttc 240  
attgaatggt cctggaaccc ttgtcaaaaa tcaattgacc atagtgtatt ggcgtaattt 300  
gtttctggac ttccattctt actctattgc tttatatatt tttataccag cacaacactg 360  
ttttgattga agtanccttg cagtaaattt tgaaattgga aaatgtgaat ccttcaactt 420  
tattcttggt ccagatgttt tgaacagact tgaattcctc cgttacttgc aatccctata 480  
attcnagggt cggctttcca tttctgttaa anggtcctgg aatttaattg ggaagtttta 540  
atccttaaaa aatttgggaa ttagccccct aacaantt 578

<210> 9881  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9881  
acataaaatt atctcactcc attttatatta anattttttt atccagtttag taaaaggaan 60  
atgtgtctct ctttatacat atgtacaagt tcagttataa aaatagcaca ttcaaagaga 120  
aaaggcttgg catttttctg attccctcta aatagcatct gtacacagga atctgggttt 180  
gagcagggga atcttaatga tttaaattaa atgattcccc tataccccct actccaaaaa 240  
agttttaaaa atcaatctat cgaaactcaa ttccgcgatt ttccaggtgtg caaatcaaag 300  
gcttgcccgc ccggaggtag ctgctccacc agggacatca ngcagggaca ggcagaaaca 360  
cctcccatgc aaacactgcc cctctgtctc tactggaggg cagcaaactc angctggccg 420  
ggctgggaag gccggtgcon aacctgcccc tctctccgcc ctcttcacct caatcctgct 480  
gtcccttcct ctctcattgc aatataaana ntgcatacac ccaaccaggg aatgaagggn 540  
ttaccaggaa aatnttcttc cggatgggca angggantct ccaaaang 588

<210> 9882  
<211> 456  
<212> DNA  
<213> Homo sapiens

<400> 9882  
cataactttt catagaaaaa tataaatata ttccctgaat tgtaaganaa aaaaataatt 60  
ttaacagcca gctttcacca taaatgccag tccatttcct cttaaataaa ctggctttcc 120  
ctcaagggtca taagggtgcaa ccattgaaat ctaacacatt ttctaaactt ctgtcatcat 180  
ccccatcatg gtatctcaca gtcctttctac cctgatttct cgttttttatt tttgaacgtc 240  
gaaaaactct tttagatttt gcatagtcca aatcctccca gtcattatca tccacactta 300  
acctagggcg tttgctttgt ctttgacgtc tcacagtttt agatatgtta gctgtaaaag 360  
ttttaccttt tctaactact tttgcttttc ctttcgtttt ccncntttg ggttttgtnt 420

008240'69462960



gctttg 546

<210> 9886

<211> 557

<212> DNA

<213> Homo sapiens

<400> 9886

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| gaaatggtac | tgaatatatt  | tgttacatcc  | tgaatcaacc | caatagacta | tcttgtaa   | 60  |
| aaaatagtaa | ggtaacactt  | caaaaacaga  | tgaacaattt | atccaccaag | aatgtatata | 120 |
| gtaagccaaa | agctcactgt  | ggaaatacac  | ttagcatggt | tattagaaaa | tcacaaagag | 180 |
| taatgtaaca | agttacccaa  | ttttatggtc  | atgttctgct | tgataattca | aataggatgg | 240 |
| atggtagtta | ctagtttnc   | atttgtgttg  | ttttaacatc | tccattgatt | tttaatgctt | 300 |
| tattttttat | ttgaatttgc  | tggtctggcag | gtttgctttg | cttaatacat | tgactgcaac | 360 |
| acncttattg | ttgtgtttgg  | gtanaataan  | acntncgana | atatttttta | aaggcctntg | 420 |
| gaaggttcca | tggaaaaaatc | cgaatactcc  | ataaccctgc | cgttccaaaa | ttccactgaa | 480 |
| tgctgttat  | tngggcacca  | acggaccctn  | gttggcaggt | tttttncn   | aaaacaatgg | 540 |
| ttggtntncc | nctgtct     |             |            |            |            | 557 |

<210> 9887

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9887

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| actgaataca | accctcccc  | gtgaaagcca | agctgggtaa | tgctcttgct | tcccaggatg | 60  |
| gtgttgcagg | atgttgcaaa | atggaacagt | aataaaaaac | cactacctca | ttatctcatc | 120 |
| atctgctgga | gccaggcaaa | tagcttcctg | attgaagctc | aacaaaagg  | gagangtccc | 180 |
| ttgggttgct | gtgtacctaa | aagctctccc | atatctcaga | ctgcaacta  | cctgtttttc | 240 |
| gtgcaganag | aaangcctct | aggttccagg | ttctggactt | tgcttttaag | cagattggct | 300 |
| ttgccagaat | gtctcctttt | cttatcactt | aatgctgttg | cctcccagaa | ctgatacttc | 360 |
| ccanataacc | canancaa   | gtgaaaaagc | acancatgcc | ctgagaacga | tttctaanaa | 420 |
| actgcatgga | ctccatcatc | taanaacatt | acatgttgg  | ctcctatact | tentaaccag | 480 |
| ccagcntact | ccgaatatct | gaaattagtt | ntcntatat  | ttncagggtt | gtttcccnc  | 540 |
| ctgttcctna | tat        |            |            |            |            | 553 |

<210> 9888

<211> 492

<212> DNA

<213> Homo sapiens

<400> 9888

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| aaaaacatgt | taagatgttt | tattttcttaa | tcagctaatt | tgactgggaa | acaaanattgc | 60  |
| cttttattca | cattttcttt | gantcgtgtt  | actgtagtaa | aggttcccca | caanatttgg  | 120 |
| cctttgctca | caagttttgc | ggctgccaat  | tagtttccan | agtcgctatt | ttacaaaaat  | 180 |
| gcttctcact | tttaaaaaat | gtaattgaat  | gtctgttcat | cacagagttt | cttgtgttca  | 240 |
| agcccagggt | gttaaacatt | tttcagggtt  | acttgggtca | gctttgaaaa | atttcagaca  | 300 |
| gtgaaacttg | anaagggacc | gtatgctata  | ntgtgttcct | cacatcctgt | taagtattaa  | 360 |

009629469.072800

-3775/13211-

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtggatattt | aaaatggant | tgttatcctc | ttgactgact | taaagtgagc | catatanntt | 420 |
| accanactat | taattaaatn | aaaaaaatgc | ctgggatgcn | catttntttc | ntaatcatcc | 480 |
| cattggnccc | ga         |            |            |            |            | 492 |

<210> 9889

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9889

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| aagcttaccc | tgtaattttt  | aataacttta | taaggagcaa | atgtgtcacc | ttaaaaatgt | 60  |
| accagtggca | tttaciaaatt | ccttcaaact | catttacaaa | tacagtaata | aaaattcctg | 120 |
| agctcccttt | tcttacacca  | gtattcacca | atcaacatcc | atgcggtgtt | ttatttgacc | 180 |
| cacatcctct | ttccttttct  | taagaaaata | ttttatcaca | ttcgtaaaag | tatctgtgct | 240 |
| tcaagtcagt | ttgtaagtat  | ctgtttttta | tgtgaatctg | atgataacaa | gagaaaaatg | 300 |
| cttaacatta | ncaggggcag  | cangaattga | ngggtggtgt | gggggacaat | ggaaggaaat | 360 |
| atnaatacca | naattccagt  | ttangtggtg | ggacttccaa | ggtanaatac | atctgacaat | 420 |
| atcaaaaaca | nactcnnttt  | c          |            |            |            | 441 |

<210> 9890

<211> 579

<212> DNA

<213> Homo sapiens

<400> 9890

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ctggtaaaac  | tgtagtttat | ttatcaaaaa  | atgtgaattt | ttatttttaga | aatgtaggtc | 60  |
| aagcattgtc  | atagttgtag | tacttaattg  | anaataatgg | nttcnatttg  | gaagantcna | 120 |
| tatacncatt  | aaacaaaatt | aaacagttta  | aattataatt | cataataatt  | ataattctca | 180 |
| tttttagatg  | gccaaaatat | attgttttct  | tactataaag | tgttatttat  | tcacgtctca | 240 |
| tttttactaa  | ttatattcaa | ttcacagtag  | tgacatcaaa | gggacaagtc  | atcataggtc | 300 |
| tgagaccagg  | aaaacctggt | ctgtttttaac | agaagcgtgt | ctaaaataaa  | antacatatt | 360 |
| tcaattagtc  | cccccganat | ngaaaagaac  | ccggatnatc | cttgtttttg  | aaggcctgaa | 420 |
| ttccagtttn  | aatgttattc | cttncgcccc  | ctgaaataat | taaaaatttg  | cccatanggt | 480 |
| cgggtgctatt | taaggcgggt | tcaacccttt  | ttgaaattta | ccacttaaaa  | nttcncctnt | 540 |
| ggaaaanaaa  | aaaaaaattt | tgacgttttg  | gttaaaaana |             |            | 579 |

<210> 9891

<211> 522

<212> DNA

<213> Homo sapiens

<400> 9891

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| agatanantt | tcgctcttgt | cacccangct  | ggantgcaat | gnacaaatct | cagctcactg | 60  |
| taacctctgc | ctcctgannt | caagcgaatt  | tcctgcctca | gcctcctgaa | taactaggan | 120 |
| tacaagggnc | tgccaccatg | cctggctaatt | tttttgtatt | tatagtaaaa | antaagtttc | 180 |
| accatgttgg | gcaggccggt | cttgaactcc  | tgacctcaga | taatccacct | gcctcggccc | 240 |
| cccaaatttc | tggtattaca | ggtgtgagcc  | accatgcccg | gccagttttc | tttttttaat | 300 |
| aatatctttg | cctatctttt | gtatcataat  | tctggcctca | tancgggaga | aagaaattat | 360 |

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|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccctcctcct | ttagttttct | ggaatatatt | atgtnaaatt | ggtattattt | cttccctaaa | 420 |
| tgtttantta | aaattgcccc | ccaaaccctc | tnggnittna | attttccttt | ttnaataatc | 480 |
| ccantttttt | aaaattgttt | tcctttaaaa | aanaaaaggg | aa         |            | 522 |

<210> 9892

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9892

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| ggcaactttc  | tggtattact  | tgtaaacact | ggttccttca | actttctgat | attacttgta | 60  |
| aacactgggt  | ccttctcaac  | caccgtattc | tgattgggtc | tataagtagc | acccagtcca | 120 |
| caccacagca  | cgcttctggg  | gtccaggana | ccgccttcac | tactgtgctg | gccccgcctg | 180 |
| tgtacggggc  | ccggggccgg  | gccatccaag | gtgcctgtgg | tgctcacacc | cccatggcgc | 240 |
| tcttctcgct  | gtctttgggg  | ctgggctcct | ccggantctt | cttcatctcc | caacccctga | 300 |
| accaagtgtg  | tgcggaagac  | cgcccaacac | catcatttnc | tcctccacaa | aaagaaactc | 360 |
| ttgggtctccc | ccntantaaa  | acaacnggcc | aacaattttc | tnggcacaaa | ggcctttggc | 420 |
| cgtgccccaa  | naatttnttg  | gttcaccgga | atggttaaaa | ttaaantttc | cattcctntc | 480 |
| ccttnnccca  | atggggcaaaa | cccaaaaagg | gccncccaa  |            |            | 519 |

<210> 9893

<211> 568

<212> DNA

<213> Homo sapiens

<400> 9893

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gcttccaaat | gcaattcttt | taataaacag | taacaaattc | tctgttaaga | tgtttaaact | 60  |
| gagagaaaaa | aaaaaccag  | taaatccagc | ttttaaaaga | aaattcaata | aatagctatt | 120 |
| ttacatggat | aaagtcatag | tggtacaatt | tatgaatgtc | acatcaagca | tgacacaaaa | 180 |
| tggtattata | catggcagaa | gtagtcagaa | aatattgaat | tagatctaaa | aagatatgaa | 240 |
| gaatttacac | ttatatacaa | aaatcttgca | aattattgcc | tcnttttaac | aaggaattaa | 300 |
| aagtaaacad | taccagctag | ttagcactct | ctaagaaggg | taaaatcaga | ttgacattta | 360 |
| aaaatctatt | aaactagctg | gaattttatt | ttctctcata | ccattttccg | ggattttggg | 420 |
| ccaaaatctt | tatttaaata | actaaaagtg | tccatccact | tgctgataat | ccaaacttta | 480 |
| nataaaaaac | ctggtttccc | ncntntttcc | anaaccccc  | catggcttaa | ataactgaat | 540 |
| nttttctgct | ccccncgaa  | aaagggng   |            |            |            | 568 |

<210> 9894

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9894

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctcttttttt | ttttttttga | gacagtttca | ttctgtcacc | caggctggag | tgcaagtgtg | 60  |
| caatcttggg | tactgcaac  | ctctgcctcc | caggttcaag | cgatcctctc | accttggcca | 120 |
| cccagtagtc | tggtattaca | ggcatatgac | accataccca | gctaattttt | ttgtagtttc | 180 |
| agtanaaatg | gggtctcacc | atgctggcca | ggctgggtct | gaactcctga | cctcaagtga | 240 |
| tacactctcc | tcggcctcca | aaagtgtctg | gattacaggc | ttgancactg | catccagcca | 300 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctctttttga | tttcttacag | ttcatatgaa | nagaaacaaa | tttgtgcaat | gaaatgtcca | 360 |
| tgaaacaatt | taaacccttc | acaaatttta | gaaagaaact | aaggacaggg | atTTTTTTT  | 420 |
| tgttacacta | acccnaagc  | attatcttta | tacactaaat | gcattatgct | atagtaagaa | 480 |
| taaattccaa | tacngctatn | TTTTTTTaa  | aangccaatt | ggaaaaaatt | tgtttctccc | 540 |
| tnaanaaccc | cccttttccc | gattatccct | ccttaaancc | aaggggcccn |            | 589 |

<210> 9895

<211> 581

<212> DNA

<213> Homo sapiens

<400> 9895

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| gaganagtgt | ctcgctctgt | tgacacaggct | ggancacagt | anccgccacct | cggntcactg | 60  |
| caacctccac | ctccangtt  | caagcgaatt  | gctggganta | cgggtgcata  | ccaacatgcc | 120 |
| ctgctaattt | ctgtattttt | agcaaaaaana | gggttttacc | atgttggcca  | ngctgttctt | 180 |
| gaattcctga | ntcagggtga | tccgcccacc  | tcgaccaccc | aaagtgctgg  | gattacaggc | 240 |
| gtgagccact | gcgcccagca | aattcttact  | ttcatatgt  | tgaacgtgca  | tgcaagtgtg | 300 |
| atcctctagt | tttcttattt | tctcccaact  | tacaactctt | tttgtcctcc  | tccgtgggag | 360 |
| ttttctcaac | tttatcttcc | aaccctctaa  | gaatttaata | ttctgaattt  | ccaactcttc | 420 |
| tatgaagtgt | ttcatattct | aaatttctan  | aaactcttgt | tttctgggcc  | tgctttttca | 480 |
| taacancctt | tcttgtttca | aaaatcaata  | cctttattct | gaaaaaacat  | ttactttttt | 540 |
| acaaaacttn | tcnccccctg | nantttttcc  | attcccccn  | c           |            | 581 |

<210> 9896

<211> 472

<212> DNA

<213> Homo sapiens

<400> 9896

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gactttaatg | atgttcattt | atttaaacga | tctgtatgaa | tttggtgatt | ttgtggatac  | 60  |
| gcccctgaca | gacaaggatt | cacagccgac | ggaagtcagg | gaggctccct | gcaaattctt  | 120 |
| catctccgcg | gggcctgccc | gagccctgat | cctgcagagc | cgtggggctg | aggtagccgc  | 180 |
| cggttgtggt | ccaggagtgc | gtctttctgg | atgcggggca | ccttcatttc | accgtagcaa  | 240 |
| ccgggtacca | aaagtagaag | cggatttttg | gaaaatgagt | cattaggtcc | caaagagaac  | 300 |
| ctattgcaac | atggactcca | taacgttctt | gaggatcatc | ctgagaaact | gatgtctctc  | 360 |
| gtagacaaa  | aatgcacgat | ttgcttggga | aaggggagta | aaaatggtgc | tggtcatccat | 420 |
| tggctggctg | ggaacttgaa | ccagcagctc | caacaagcga | catgtnnnnn | nn          | 472 |

<210> 9897

<211> 558

<212> DNA

<213> Homo sapiens

<400> 9897

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| caatgtaaaa | tcaagtttta | tatgattcna  | aganaaaagt | tacattacac | atgctcgttt | 60  |
| aaataatgtc | aaagtctgtt | acataaaaaca | taattatgaa | acattttaag | tcttatcatt | 120 |
| caaactactt | aaaaggntca | aagtcacaaa  | anatcaagca | aaactgccca | ggcaataaag | 180 |
| tgacagaggg | gagcccacct | ctccagcggc  | cgtcagcacc | canagccgcc | agctgagggc | 240 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tccatgccga | atccatacac | aaggtttgtg | gttctcagaa | nagttttcag | acaggaactg | 300 |
| tttccaactt | aaaatctttc | aacagacaaa | tggangtgga | anggggatgg | tttacacaaa | 360 |
| gtattttcaa | atgtaatcag | gaaatggaag | tgtnaattaa | aaccgttttc | acatgtntct | 420 |
| cctctttaga | aatatcctgc | ttgganaatg | ttttgacaac | cacccaattc | tcnnaaaacc | 480 |
| ttntccccc  | aaatactggc | nggacncnca | ttactttgct | tttcttatta | aaaaaaattt | 540 |
| cccatttgaa | nccctttt   |            |            |            |            | 558 |

<210> 9898

<211> 542

<212> DNA

<213> Homo sapiens

<400> 9898

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| agatggagtc | tcactctgtt | gcccaggctg | gagtgcagtg | gcacgatctt | ggcttactgc  | 60  |
| aacttccgcc | tcccanattc | aagtgatttc | tggctaattt | ttgtattttt | agtoganaca  | 120 |
| gcatttcgcc | ttgttggcca | ggctggtctt | gaactcctga | cctcaagtga | tctgcccgcc  | 180 |
| ttggcctccc | aaagtgctag | gattacaggc | gtgagccacc | atgcctggca | tttttccata  | 240 |
| tgtctttgaa | caaattatta | actctttttc | accttggttt | gctttctgga | aatggggctg  | 300 |
| anaataccta | actcctagga | tacgtcaaag | gattaaatga | ggcaatcagt | aaattgcccc  | 360 |
| acaccatttc | tggcacaaag | tagatacttg | gaaaacaatt | ccttcccttt | ctttccccaa  | 420 |
| atgtcaaggt | gccagcattt | cttccctcaa | tggcttccct | cccagtanaa | aatnttcac   | 480 |
| tccnnaaatt | taaaaggcat | ggcggtnngg | ggaanggaaa | attgggnatt | ncitttaactt | 540 |
| tc         |            |            |            |            |             | 542 |

<210> 9899

<211> 461

<212> DNA

<213> Homo sapiens

<400> 9899

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| aaaagaaaat | catgtacaga  | ttttattttc | gntgaanatc | acaaaacaat | ttcaacctct | 60  |
| gggggtcaaa | ataatttaag  | gatcttgtcc | tttgggggtt | attttctggt | tcnactaagg | 120 |
| anaganttca | gaanggntag  | cttcccttgt | tacgttttta | aacatctttt | tcatttgtta | 180 |
| gaanaacatt | tcaaaagccc  | naattaaatt | atcattaaaa | tactttgaca | ctttacaatc | 240 |
| ttccaagtgg | aatttaagtt  | gtatgccttg | atactgtagt | tttacagttt | ccccatcatt | 300 |
| ggtaaatatt | cttctatgat  | gccactataa | tgctactggg | agaaaatatg | tgcataataa | 360 |
| ttatcagtat | attttctntgt | taaattttat | aaaaatctcn | aagttatgaa | nanagtttta | 420 |
| cnccccnncn | aaactaagtg  | tttgccaact | attaccctta | a          |            | 461 |

<210> 9900

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9900

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cctngtgcag | tcaacaagtt | tcatttttagt | tgtgcttaca | ttatataact | gaagcctgaa | 60  |
| cactgattgt | gtttttaatt | tacacgtttc  | aagaaaacca | taattaaata | ttcaccatat | 120 |
| acaacaaatt | gaacaaatgc | aacaaatact  | catttgctcc | caagaaatta | atctatagaa | 180 |

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| aggaaacatc  | tttttaaaaa | gttgaacaca | gtctgctatc | caggctacaa | gtacatattt  | 240 |
| actgtgttac  | agcacattat | tttttttaaa | gtccgctttc | aacataaata | ttaaataatca | 300 |
| catttttaaaa | nagctccata | ctaagttttc | aggtaagtgc | taaacagttg | gccagtagca  | 360 |
| actacttacc  | attatctttc | tcacatagag | tgactagact | atctgcgaaa | ctgtataggg  | 420 |
| tgatgggcaa  | ggcaaaatga | aacatctttg | ttcacccatt | gaataaacat | tgtgtttctaa | 480 |
| atgcccctac  | tttctaaata | cccacccatg | gaatgcaatt | atttaaaaag | ntggtttttaa | 540 |
| ggatcattat  | cctt       |            |            |            |             | 554 |

<210> 9901

<211> 437

<212> DNA

<213> Homo sapiens

<400> 9901

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ccattgaana | gcgacattca | ttctggaatg | tttgttttga | aaacaactct | tctgggggaa  | 60  |
| ttcaaaaggt | actgaacaaa | gcaacgtaaa | gtaagttttg | ggttgttttg | caaaaataaaa | 120 |
| atatacaatt | gagtggacca | natggcaaaa | acataccaat | tacaatctga | atgctatatt  | 180 |
| taaaaccctt | aaattctgaa | ggcctgaata | tcaacaaacc | tatttatgtt | tatgatccta  | 240 |
| aaaagacatt | aaatattatt | aaacccccaa | cttccaaaac | atagagaccc | ancaaactgg  | 300 |
| gctagtggta | tctcagtaca | cagtcacaca | tgactagact | agactagact | agactagact  | 360 |
| agagatctga | gtttgcaacc | aagtncaana | ngtctttaag | anctcangct | aagggangcc  | 420 |
| tttattcnaa | tgcccttg   |            |            |            |             | 437 |

<210> 9902

<211> 518

<212> DNA

<213> Homo sapiens

<400> 9902

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gataggtagt | cagatttttt | attttcaaac | gtgccaggta | catttcccac | ttttgaataa | 60  |
| cagcaaaacc | ggaanangat | gctttcacac | ataataaatg | ttctccatcc | tttctgaaat | 120 |
| gcaccaaagc | aaaaagcctc | tgaagtcaaa | acatgagaca | taattccttg | ctcattgcag | 180 |
| gagacatgca | ggtgccccct | cctttaccca | ataccaagag | acanacggcc | gggcagggtg | 240 |
| aaggcgggtg | gcgctgcagc | tgacatggag | aanagtctaa | atctgaagac | acttttccac | 300 |
| acttaggaca | agttcttcac | tttcatgctt | tattgaaagt | agaatatgaa | tcaaagacag | 360 |
| gcatttgtaa | gcaggttatg | tctctaaaat | tacttttcgt | tcagancaga | atgttgtccc | 420 |
| atctacttga | tacaatcctt | tatggacca  | cncntctngt | ttgaaactcc | anccaggaaa | 480 |
| ttttaccgaa | cttttttccc | cncccccnan | taataatc   |            |            | 518 |

<210> 9903

<211> 469

<212> DNA

<213> Homo sapiens

<400> 9903

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gtctgaaact | ttttcctttt | aatatggttt | acattctatc  | tccagagaaa | acacacttaa | 60  |
| cagaagacag | aaaacattta | acaaatccaa | agcaattaaa  | aatagccaca | aaaaaagaga | 120 |
| ataacctaga | ctgacagctc | acagagcaag | gagggtggcag | anacctgccc | aggtgagctt | 180 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| catgaataat | acctatctta | aagtaataat | aataaatgac | atgtgtatac | aaacacattt | 240 |
| aacatgaatc | aggatttctt | gttcttgatg | tcagcaccta | ctgtctaacg | ggtcgagaca | 300 |
| aaatactgtg | ccttcaagag | ttagtcccat | tttgaacccc | tcctgcatct | catctaattt | 360 |
| tgattgaata | tctggaggga | aatctgctgc | tccacagtta | aatgggtcaa | aaagttctgc | 420 |
| tccaaacaag | tcccgtttaa | tctcaataaa | tctctaagtt | ctggaagtgg | tgtnnccat  | 480 |
| tgccaattag | gctccaaaaa | agggtgnatt | tngaaaaaat | tgaatcnttt | ccaaaatttc | 540 |
| cttgganggc | aaattagggt | tcttctgccc | gncggaagtc | ngaaacctn  |            | 589 |

<210> 9907

<211> 595

<212> DNA

<213> Homo sapiens

<400> 9907

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| aaggagaaaa | aagtataaaa | atttcttttc  | ttattacaag | aattccaaga | tgtgtcagag  | 60  |
| ttgaccagaa | gcatanagaa | aactacatag  | tcgagtaccc | accaggggaa | tgtggtanaa  | 120 |
| ttggcagtct | gttgggtctt | ttgtaatgtc  | agattaaaga | aatcacctgg | aggctgacat  | 180 |
| tggccccctt | ccttcccagg | aggcagatct  | ggcctaaata | cggagatgog | tncaaagaag  | 240 |
| acctaggatc | ncaatcgttc | ttagccatca  | aactcttctt | ccaggtccta | gagaaaagtgg | 300 |
| ccactctata | ccaaagccaa | agaactgcag  | agtactcctc | ttgggtgggg | tttcatattg  | 360 |
| ctcttgcaat | tcagtttctt | ctcatctttg  | ctgtcatttc | gtgggtacca | acagccttgg  | 420 |
| ccangtgtga | gaagtgtcca | ttactattgt  | ttgctctgac | tatcttgogc | caagatccca  | 480 |
| ttaaggtgga | accaanggcc | tgggtgatctc | ttgccttggg | acanaataat | tgggtgggtgt | 540 |
| gtttcctntc | cccccgttgc | ccccgttttt  | ttcccnaggg | cgttnaccnc | aattt       | 595 |

<210> 9908

<211> 389

<212> DNA

<213> Homo sapiens

<400> 9908

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| agtggcaact | ggtattttatt | acaattatat | acagtcctat | cttccgttct | gaggctctata | 60  |
| catgatcaca | caaatgaaca  | tgtgttttct | ggggggaaag | acaaaactgg | ctgttgggtca | 120 |
| ngaagccctg | ctgcctgggt  | cctcctccgg | agtgagcccc | catctcgcca | tgggattagc  | 180 |
| tgaaccatta | cacggcaagc  | gggggcatcg | gaagcganc  | gtggtttcat | ttgtctggga  | 240 |
| agacaacggg | gcatnaatgg  | ggttggggct | ggggacaagc | acctgacggg | tccaaggccg  | 300 |
| ggcccagggg | aaggaagggg  | atgcanacac | canaaggacc | ncanctcctc | ctccactnaa  | 360 |
| gaatccggaa | gcantangga  | cctactctt  |            |            |             | 389 |

<210> 9909

<211> 573

<212> DNA

<213> Homo sapiens

<400> 9909

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gcaaataat  | ttatTTTTAT | tttgtctcat  | acacacacag | aaaaacagat | aaaaatctag | 60  |
| cctgagattt | aaaactcact | aaggaaaaaa  | aatcacagca | aaagcagtag | gttaacatca | 120 |
| ggatatttat | attcaaggnt | ctatgggtatc | aagttttttt | tctctttaga | nccaggcatg | 180 |

|             |             |            |             |             |            |     |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| gtggcatgca  | cctgtgggtcc | tagctactca | cgaagctgag  | gcaggagggtt | tgcttgancc | 240 |
| ccagtgccttg | aggctgcagt  | tagccgcgaa | tgcaactgctg | tactccaatc  | tgaaaaacag | 300 |
| ancaggaccc  | tgtctctaaa  | aaatttgaga | ttttttaaaag | tccatatttt  | tttgttattt | 360 |
| aaacgtggta  | ttattcaaca  | ttgatgaact | tggttcgtga  | gttctaaaag  | ggattcaaaa | 420 |
| taaaatggca  | ttttcacttt  | tttaaaatta | agatactttt  | cntgatcaaa  | aatatgtttt | 480 |
| tgtctccccc  | ctganccccc  | tttccaggtn | ggttaccaac  | ttncnaaatt  | taatttggct | 540 |
| tatnctccaa  | anaacctttt  | ctttaatcnt | tac         |             |            | 573 |

<210> 9910

<211> 569

<212> DNA

<213> Homo sapiens

<400> 9910

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| aatTTTTtact | TTTTtctcaag | tttaatgtag | acatacaaga  | aaacatcaag | caatgtttat  | 60  |
| tgtgcaattc  | caatcattat  | ttgcagaatc | ttggttttaga | gtcagtcctt | atagccattt  | 120 |
| caactgccttg | gtttaaacaa  | aaagcaacaa | tctggttatc  | tacctataaa | tttcacggta  | 180 |
| tttcttttaa  | cactgaagta  | ctaaaagcac | tgatgatttg  | tattataatt | tttaaaatat  | 240 |
| ttaaaacct   | cacagatttc  | atagatcatt | cctttttata  | aataatcaaa | ataatttgat  | 300 |
| tatctggaaa  | aaaaaattct  | tgaacacag  | ccctttccag  | gtatcttcaa | tctctgtaaa  | 360 |
| accccaaacc  | ccnaacagag  | tagatgatga | aataaggatt  | tctcagttgc | ccaagactgt  | 420 |
| ctgaaattta  | aggtganaaa  | tggactggcg | tttttcatgt  | ttcctgtgaa | ttcaaaaactt | 480 |
| acaggtggga  | tcanaactcc  | atctctngga | anggtttact  | tggcttcctt | ttgaattggt  | 540 |
| tcctttccat  | tggctccttt  | cccactcct  |             |            |             | 569 |

<210> 9911

<211> 549

<212> DNA

<213> Homo sapiens

<400> 9911

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gttttttttt | tttaactgat | gtgccagttt  | tttgacacct | ttattcataa | gtcaatatat  | 60  |
| ttgtcagttt | gaatgttata | cacatgataa  | aatagattat | gagaagtatc | atattttacaa | 120 |
| taagaacact | attttatata | actgactcac  | caaatatgca | acctcttgca | acaataacag  | 180 |
| aatggactca | actccatcct | ttgaatagac  | caatttcatt | attctcctaa | aaagttttga  | 240 |
| gttgagtata | gttccttggt | gcttctctct  | gtgatccaga | gcttaagaat | caatccctgg  | 300 |
| aaaccagcca | ctggaaccag | acctctccag  | aattgagaag | agacagccnt | agaaaaaagg  | 360 |
| acacaaaccc | aaaagtcttg | agcgtgtgtc  | catatgcttg | atttcaganc | attcaggcac  | 420 |
| tcnaggtcaa | gtgtgggggc | atatatatat  | atgttctgtc | atctcaaagt | ccacnacngg  | 480 |
| ttcagttngc | cgggattttn | aaaaaaaagaa | gctttcctgg | aagaatgnat | ccntcccccc  | 540 |
| attttnttt  |            |             |            |            |             | 549 |

<210> 9912

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9912

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| aggatanag  | tctatgttgc | acagtctggt | cacaaactcc | tggcctcaag  | tgatgtttcc  | 60  |
| tcctcagcct | cctaaagtat | tganattaca | gctgtaagcc | actataacctg | gcctcaaaaat | 120 |
| tatattaatg | tctattagtt | aacttgaatt | gtttgtgctt | gtcttgttgg  | ttttaaccct  | 180 |
| acttatatac | aagaattcaa | aagtattttc | aagccctatc | atttagttgt  | aaaatatacc  | 240 |
| caactcacat | ttatagactg | ccaactaact | tgaatgtttg | tacaggcatt  | tctgctgtga  | 300 |
| tgccatgtgt | acctaaataa | aactcacact | ctataaaatc | acacactaaa  | ttaaattaac  | 360 |
| agggctatag | aaaaaagant | tataggctta | cctctcaaaa | tctatagact  | tttgtgacta  | 420 |
| gaaagcacta | aaaaacagca | ataatatcct | attaacngtt | ttaccgggta  | atctctccgc  | 480 |
| nancaaccn  | aatncngggg | aaatncttgg | cacct      |             |             | 515 |

<210> 9913

<211> 510

<212> DNA

<213> Homo sapiens

<400> 9913

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| ccgaattatt | taacttcatt | ttattattat | ttatgctcct | caggtaattt  | acatcgactg  | 60  |
| catctgtatg | gtgaaaatat | agtataatgg | ggtgctgctg | tgaatctcct  | tccaattctg  | 120 |
| cattctgtga | tatcatagt  | gtaacctgaa | atccaccata | gtggggacat  | ttacacaata  | 180 |
| actggcaaat | gctacaaggc | tgggcttttt | cagttttgtt | gattgtctgg  | acataaaaaag | 240 |
| gtaatacaga | aaatgttacc | aatacaagca | tttgggaaaa | ataaactaaa  | accttttgtg  | 300 |
| aaaaacaaca | ggttttatgg | aatttacaat | aaataatact | gtatatattta | ttattttataa | 360 |
| attctgtgct | acacattcct | catatcagta | aaacttaaaa | catatatatg  | ttatccatac  | 420 |
| attttgtttt | ctanaaancc | actggttgaa | cattaaccaa | cacactactg  | ggaatttccn  | 480 |
| nccnccaaag | tttttttagg | tnggggangg |            |             |             | 510 |

<210> 9914

<211> 554

<212> DNA

<213> Homo sapiens

<400> 9914

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gactgaaaac | tactttat    | gaagacattt | tcttctatag | ttctaaacac | aaaaggaatg | 60  |
| ctgttatagt | gggtatttca  | taggcattct | tgtattcaaa | tgaatcacat | aatgtttaca | 120 |
| cttttaagct | agacttgaaa  | ttgaagactt | aatacaacct | tttaacaaag | aaagtatcag | 180 |
| tcatatcaaa | acataactat  | tcattctaca | gattatcact | ttccctaaaa | tgactactan | 240 |
| atatgaaaac | attgcaggga  | cagctcaagt | gccccattct | taagggtttt | ttttaatagg | 300 |
| aaaaatgaca | acgtaaatca  | cattttcctt | ttctttacta | gtaatgaact | atggcaatcc | 360 |
| atltgagaaa | gcaccagcca  | accgtacaag | tcatttcagc | accctttgct | cttcnaaact | 420 |
| gaacatcttt | tatatttaat  | gcttccngtt | tgaataaaaa | tgggtatgtt | tanttcaaaa | 480 |
| ttccccacct | ntttattingg | ggtttaatta | aaaagttttc | cccnttccn  | aaaaaattaa | 540 |
| aaaattcncc | cgnt        |            |            |            |            | 554 |

<210> 9915

<211> 497

<212> DNA

<213> Homo sapiens

09529469.072800

<400> 9915

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| gggaatcacc | atccccagtt | tttaaatgta | aaggggctaa  | cactgtatgg | gactcaagac  | 60  |
| tggttttgaa | attctctttt | acatcagtc  | ttaaataactg | attgttaaca | ttattttaatt | 120 |
| tctgtgttag | atccccacc  | aaactctgag | gttcacaagt  | tggaattaca | tttgaatgag  | 180 |
| ggtagtant  | tggtgattca | acactctttg | ctatgantcc  | cattgttggt | aagtcacttg  | 240 |
| ttaccaagtt | ttgggaancg | ttaggtgcaa | ttagtggagg  | agcaactttc | tttcttctct  | 300 |
| taaaaacact | gtttcccctt | tttatttaaa | tgactggatc  | ttgtgttctg | aaggaccact  | 360 |
| tntnacanaa | acacgaaaac | tggtactggt | aaaattttgt  | gatgggcccc | cncaattagg  | 420 |
| aatgaacta  | aaacacaaac | cntttccnca | gtcctccant  | attaattcct | nccttggaac  | 480 |
| aanangcaaa | ctgctac    |            |             |            |             | 497 |

<210> 9916

<211> 520

<212> DNA

<213> Homo sapiens

<400> 9916

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| cagtggattt | ctcaacaagt | cttttcaaca  | gtgatacaca  | atattcttcc  | ctttggaatc | 60  |
| ggtgctgtta | aataaacatg | tnctatatag  | ccattttcca  | atgcaacatt  | agagtacana | 120 |
| acaggtattc | tgtggctagt | gagtaatact  | gctgctgtag  | ggtgcataca  | cgtaggagtc | 180 |
| ggacnangat | cttactcagg | attgcatcgt  | antagggaca  | naaaaccatc  | ttgttatatt | 240 |
| tgaccaggcg | agcaaattta | atagcaactt  | cctccagctc  | tctctgaact  | ggactgagtc | 300 |
| ccccagggac | tgtgggcaat | ggcttctgat  | gacccnaggc  | aaggtaggtt  | ctaaaaagtc | 360 |
| aggattcnan | atcccatgat | cctgccaatg  | gggtctcggg  | aactggggcca | cggcctggat | 420 |
| ctgggccttg | aacaccggct | ccttgttcnt  | ggtgaaagga  | aaagaccccc  | ccnggaaaag | 480 |
| cngcttgctc | ncctcccagn | cnanccttctc | cccatgggtat |             |            | 520 |

<210> 9917

<211> 543

<212> DNA

<213> Homo sapiens

<400> 9917

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gaggtacaaa | tccaacagag | ctttaatccc  | aaagatccag | tggccaccag | antacagaag  | 60  |
| tcagaatcaa | atgctcagaa | tcaaaagggtg | tggcactcct | gccagccgg  | cttatcagca  | 120 |
| gttgataga  | cagatcagaa | aaaactagca  | tttattataa | aaactgtttt | tcaaattggg  | 180 |
| tgatttcctg | tccttctcca | nanatcataa  | ttcttcacgt | ttctgaggac | cttctcggct  | 240 |
| tggttctttt | gtcttctctt | gtacagtgc   | tcccgtttct | ttctccttct | gaaagcggat  | 300 |
| ctgtagctgt | ttgatctctt | ggtcgtagtc  | ctgccactcc | gggacaatcc | gcacagctgc  | 360 |
| ttcccagttt | ccgggctctt | tgggtctccg  | gaattattac | acaaatcaat | gggttttgtc  | 420 |
| cttttcttaa | aaaggcgtca | tcacaccacg  | tttcacacca | aaaccattct | tgnaaggang  | 480 |
| gatttaattn | gcacctgatn | aatcattttt  | tnggccnato | ttnatcaaaa | ttgaaagggtg | 540 |
| ttt        |            |             |            |            |             | 543 |

<210> 9918

<211> 575

<212> DNA

<213> Homo sapiens

<400> 9918

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gtactctaag | gntttttat  | ggtgacatct  | ttccacagat | aaatgtaatg | tgtatcatta | 60  |
| cacttacatt | gcttttatct | agcacaaaaac | ctctgatgag | taagttcata | gtagttatta | 120 |
| aatgctttgc | cacatttctt | aaaatcagaa  | tttttctcag | catgaatttt | cttctgtgca | 180 |
| ataagctgtc | agcaatgggt | gaanactttc  | cccacattct | tcacatttgt | agtgtttctc | 240 |
| tccagtatga | attatcttgt | gatttcaatg  | ccttgagcaa | natttatgga | atttgccaca | 300 |
| ttctttacat | ttgtagggat | ttctcttttag | taaaaattct | tacntantaa | nggtngaagc | 360 |
| agtgattaaa | anctcccca  | cattttttat  | acttgcngga | ttctctcctc | tttgaactct | 420 |
| cttatgtttc | attaaaatgt | gagcaccgtt  | taaaancctt | gccacattct | cccatttata | 480 |
| ncgtttgang | gcagtatgaa | tttccctaag  | tctagtgggt | gtgaccccg  | ataaaggntt | 540 |
| tncccatnct | ccccgttgn  | gggttcccn   | catat      |            |            | 575 |

<210> 9919

<211> 500

<212> DNA

<213> Homo sapiens

<400> 9919

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| gtaaatgggtc | tcagatactt | tcttttgcta | aatgggtgtga | tacagataaa | tccaataaat  | 60  |
| ataataat    | acttaattca | ttatcatcag | gaangnctgg  | aattaaaatt | cttgattttg  | 120 |
| agttttataac | ggtttcattt | cacttattac | ctctacatat  | gatcatttta | aatgtcagac  | 180 |
| taattgaact  | actgaattga | atgcaggcta | ttagcattaa  | atgagactca | tgcaatagaa  | 240 |
| tataaaggta  | ttacactgtc | cctattttgt | gcaactgttta | ataatcttag | gtacttanaa  | 300 |
| tttttagatg  | tgtntcta   | aaatattttt | gtaaatacgt  | cttgaccaag | tgttataaat  | 360 |
| gtttctnaca  | gatataaana | tcattttcaa | agtttactct  | catanatttc | tgatacgtgt  | 420 |
| aaattccaat  | gttacctcat | aaccanccaa | atattccaan  | tctcanaaaa | tgcaaaaatta | 480 |
| caatantccc  | tgtttncccn |            |             |            |             | 500 |

<210> 9920

<211> 457

<212> DNA

<213> Homo sapiens

<400> 9920

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaagttgttt | ctccagtttt | ttggctttac | tcgtggcatg | ttttaacttt | tctctaactt | 60  |
| gaacatcttc | caaacttagc | tgtgtaaatt | tttctttatt | ctcctcaata | aattttgtaa | 120 |
| ttttattcag | tttcttttct | gtatctttta | catctttatt | cttagctttc | atttcatttg | 180 |
| atagtatatt | gctcttctca | ttaatttctt | tggtatcttc | atgaattttt | tccttttgag | 240 |
| tttccatttc | agcaattcgt | ttctgcaact | cataactccc | aacttaaagc | aggatactaa | 300 |
| aaagtcaact | tcaatgaatt | aatatgccta | atttaataaa | ttcaaccctg | gtgatcaacg | 360 |
| ggangaacag | ggttcncacc | aanaaaatnc | cccacattgg | aataattcca | cccataatnc | 420 |
| cttttttgtt | aaaaannggg | tctggcatgt | tgcccag    |            |            | 457 |

<210> 9921

<211> 507

<212> DNA

<213> Homo sapiens



<400> 9921  
attattatac tttacnnttt anggtacatg tgcacaatgt gcaggttagt tacatatgta 60  
tacatgtgcc atgctgggggt gctgcaccca ntaacttgct atttancatt aactatatct 120  
ccnaatgcta atcctcccc cccccccac cccaaaaaca gtccccanaa tgtgaagttc 180  
cccnccngt gtccatgtgt tctcattgtt caatttctcat ctatgantga gaacatgcgg 240  
tgtttggttt tttgtccttg cgatagttta ctgagaatga tgatttccaa tttcatccat 300  
gtccctacaa aggacatgaa ctcatcattt tttatggctg catagtattc catggtgtat 360  
atgtgccaca ttttcttaat ccagtcctatc attgttgtag atttgggttg gntccaagtc 420  
tttgctattg tgaanaatgt cncaataaac atacttttnc tgttttctta ataccaccan 480  
gaattaaaa cccttnggggt attnccc 507

<210> 9922  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 9922  
cctcaggcac tttttatttc atgctgtgcg ggggcccttg tcccaaattt gtggccacgt 60  
gtccangtgt ctgggggant gggccaaaacc tgaaaaaaga aggccctgct ccaaaaatcc 120  
ccangttgtc cctgttgacc tatagggang tctgacttca ggcgttgccc tcctgaccgg 180  
tgagcagtc tgaatcgctg gctcctattc tgtcacacgg ggtgggtagt gccaaaaanca 240  
gcctcctgca ncccttggcg tccggaanag tgacagccac attcaagtct ccctggcacg 300  
tgaggcccat ggtgcccctg actcatgtcc tggctccagc caatanccca ncccccatg 360  
gaaangttcc ancatgtgca aaaatgcaca ttggccangt ggctgcccc cggaaacatt 420  
tttcaaaaaa gcaggggtca ggtnacccaa tntccaaaa tctcatggaa aggtcccacc 480  
cattggcccc cccaanccaa ccacancagg gtttnaacn cnaaacccc 529

<210> 9923  
<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 9923  
cagagtcaat aactttatta gaaaaagatt aataactaaa cttttcaatg acagagacaa 60  
tcaactttgt aacagaaagt cagagatact ttatttttac ttctaaatcc aaaggntaag 120  
tagagcagag ttgtaaaaat gaaatccac ttagtctgat tcacacgaat actaacgttt 180  
aatcctgttt tcaaagtcca agattgaaaa cttgcaatta aacactgagc aagccacatg 240  
tttaagtaat atttcttaaa agtctttaa gaaaaagta tgatacagga cctaagtttt 300  
cagtggcata tatattatta acacatgttc tgaaatctgg taggtcacat cagtcctgaa 360  
ttaactttta ataataataa taataaaaaa actaactgag ctttatactt tttctatgcc 420  
ctatagcttt ctttccctca ctttttaaat gtcgatcttc actctatgcc gtntcggta 480  
ttctnccaaa aatctcnaac agtatncccc ngtcngatcn gaggtcttat caaatcagtt 540  
taat 544

<210> 9924  
<211> 366  
<212> DNA

09629469.072300

<213> Homo sapiens

<400> 9924

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| acggggaaga | gtggactcaa | tttttatatt | tgaacactca | tgacacagagt | tccttatatt | 60  |
| ccccaggtcc | cacaagagta | ccaggtgcc  | ttcagaacc  | acctttctaa  | acctctgccc | 120 |
| accactgaa  | agcaacacgg | cccttcacag | cctggcttcc | ttcttttgac  | acacagccct | 180 |
| tccgctccag | tggagaatcg | ccaaagatca | tgaagggtaa | atagtctcct  | ctgaaccct  | 240 |
| ggtctgggaa | acccgtttca | accccggggg | gagcccantg | gccactgggtg | ctgccaagg  | 300 |
| gctgctgtgg | ggcanaaata | acacacanaa | gaaaggtngg | ggtggnagga  | accctccan  | 360 |
| aanca      |            |            |            |             |            | 366 |

<210> 9925

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9925

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| aaaggtgaaga | ncactttatt | cttatttgaa | ccacactgta | ttgttgatta  | cogantgtga  | 60  |
| aagtagtatg  | ttcagantct | tgttttatgc | ctttgtagct | gtgttgccag  | catttgaagg  | 120 |
| taactcctcc  | acataagcgg | caggaaaatg | gccttttttc | ccattcaaag  | atccaaaacca | 180 |
| ccatccttct  | tcttttttct | cgtgtataat | cacaatgtca | ccctttttcca | aattcaactc  | 240 |
| atcatcttgc  | ctggcttgaa | aagaatacaa | ngccttgcaa | agtctgctgc  | tgagctgggc  | 300 |
| tgcaccaggg  | gctggagttg | aaaaactgga | ttgctctgcc | caccanaaga  | tgcccttgctc | 360 |
| acaatattct  | ctaattctct | cattaaaaaa | ggccgagata | ttttcacata  | gotatgagta  | 420 |
| tgctcctttt  | ccctcccctg | aaanatggaa | ttactacnag | gatggctggg  | ttgaagtctt  | 480 |
| tgctccaatt  | tctgtacat  | tgataacagt | ttgttggtt  | cnccttccaa  | aggtctatatt | 540 |
| caaattgtcc  | ccnccnttaa | cncnctntt  | t          |             |             | 571 |

<210> 9926

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9926

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gctcacggcc | atgatttatt | acagtgaag   | gatacaaaac | aaaatcagca | aaggaaaaaa | 60  |
| nacacatggg | gtgaagtcag | gggaaactaa  | gtgcaagctt | ccaanaatcc | tccgccagtg | 120 |
| gaatcacaga | ggatgagctt | aattctccca  | gcaaccagtt | gtaacagcac | ttgtgaaaca | 180 |
| ctgtcaacca | naaaagcttg | ttagagactg  | agtgcctggg | gtttttactg | ggagctggtc | 240 |
| acaaaggtag | tctctgcctg | gcacatacca  | aaattccaga | ctcccagaag | gaaagcaggt | 300 |
| gttcaggaga | aactatatig | ttttacagtt  | tanatatant | aagctacttt | gatcagttct | 360 |
| gggaatggtg | gaagccccct | gaactccaag  | ttcccanatg | ccaatcaagg | gccaaccttg | 420 |
| taaagcaagt | ctctaangtt | aagtantcag  | gtcgttcat  | taacactttt | ttctgcacag | 480 |
| caattttatc | tcacattttt | tcctccatgc  | ccataaatac | ncatttcctt | aattntcttt | 540 |
| aacnagttta | ctatctccgg | tttccccctta | ataatccaat | an         |            | 582 |

<210> 9927

<211> 582

<212> DNA

<213> Homo sapiens

<400> 9927

|            |             |            |            |            |             |            |     |
|------------|-------------|------------|------------|------------|-------------|------------|-----|
| acactgcttg | cactttat    | ttt        | gtacagaca  | tttcattaat | tattactcaa  | ttttgaggtg | 60  |
| caaaccttct | gaatatagct  | ttcatttttg | accaaacaat | ttgttatggc | aataaataat  |            | 120 |
| gatgcattga | aaaaccaatt  | tttgtatttg | atttaatgca | ctcttacatt | taagaaatta  |            | 180 |
| tatatacatt | cttgaatttc  | aacttaccaa | aatagaatag | cttttattta | acagcctaag  |            | 240 |
| cttttgtttt | cctgacaaat  | actgaaactt | tttgttacat | taatgctgca | aagttgttta  |            | 300 |
| tcacctcaac | tttctcactg  | ctttgctcat | aactaagtgt | gattacatgg | agagagaaag  |            | 360 |
| ttttgtaaca | gtaacacatg  | atttagagtt | taaaatcata | tcagaaagat | gggaattatt  |            | 420 |
| taaatatacc | ttataaaaaat | aagtggctta | atcaatgaaa | aaaaaaccca | gggggtttttg |            | 480 |
| gcttataatt | anaaaataan  | tntatcctta | gttatagtta | attaaaaaaa | tcaccaccta  |            | 540 |
| aaanttaaac | catccgaant  | tttccttacc | gaaaaaattt | tt         |             |            | 582 |

<210> 9928

<211> 580

<212> DNA

<213> Homo sapiens

<400> 9928

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| gttaattttt  | tacagcttta | tttttagacag | atagtttaag  | aaccaaagac | atacctctgt | 60  |
| aatgataaag  | gaaagaaaac | aagcttttct  | tttaagaaac  | caaagagcac | aaaataagac | 120 |
| tgtttcatta  | tacataatca | ccacaggata  | ttaggcactc  | tgacagggtt | aggcaanatt | 180 |
| cttgggtgtga | ggtgaagcac | aggcaacttta | tttgtacagt  | gctgctgatt | ctaattttga | 240 |
| aggtaggtat  | tataaaagtc | tttacttgtc  | accttatttc  | tggccccaac | acagcagcct | 300 |
| atagttttta  | aagttctgtt | tctccctggt  | ctttgttctgt | atacacatcg | aaagtaactt | 360 |
| aaaaacaagg  | atccaagggg | gccatacttc  | atatgtttatc | taaatgttaa | tatgagaact | 420 |
| caaaagtagg  | cagattatat | gaatacatat  | tcttacctct  | gctacaaata | aaaacacccc | 480 |
| aaacccttcn  | tcatactttt | attaaaattc  | cgatnttaac  | tgtnnccttt | atntccattc | 540 |
| ctnaaaattt  | ttattgctta | atnaatccag  | atnttttttt  |            |            | 580 |

<210> 9929

<211> 418

<212> DNA

<213> Homo sapiens

<400> 9929

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| agaaaggcag  | atgatttctt | tattgtnaag | acagcagtta | caaaagagaa | taaatatgac | 60  |
| attaggatat  | atttgttaaa | aatacaacaa | aaacccttag | tatttgtgag | caaccccnag | 120 |
| aactcacaag  | tatgggggat | agaacatct  | acagctggat | accctgaaac | agatgttata | 180 |
| aactggctaa  | tggtgagtat | ggccatgact | ttggggatgt | ttgaaaggcc | ctggatctgt | 240 |
| cacttgggaa  | cgtcagcggt | ctactgtaat | acaatttgca | cagagtcaga | gtgaacagga | 300 |
| accctttttac | tcattggtat | cctaactatt | ctttcgttct | tacagtgaaa | ttattacagt | 360 |
| atttaanaan  | tggggaaaaa | ggctgaactg | ggaaanacnt | anacggagcc | nngtttaa   | 418 |

<210> 9930

<211> 604

<212> DNA

<213> Homo sapiens

<400> 9930

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| gtgttaaaat  | tactttttatt | cagggatgaa | aaatacaata | tgtaaccaga | ttagatgata  | 60  |
| gtctgtgatt  | atttcttttac | cacatatttc | aaaagaacta | catacttact | tcccattgtt  | 120 |
| actgcaatat  | atttctttttt | atttattatt | acttagaaag | ttacaatgta | ntgttttacg  | 180 |
| tanccttttct | ttaatagcag  | atagaggaca | ttttgcatac | aaatacaggc | agaaaaaaaa  | 240 |
| ttaacacatg  | acttttttaa  | gtaagaacaa | gggaagacac | caaacttaca | acttggagtt  | 300 |
| gagagctcag  | ggaattgttt  | tttcttttaa | taggtgcttt | cttgggtatg | acatggcctg  | 360 |
| ataaaagctc  | tagactttgc  | agactgcagc | agcataaagc | agtttccaat | gcaatggatg  | 420 |
| aanatngatc  | tgaaggatana | aaagggtgcn | tggctttccc | ttttatatta | aacaattttc  | 480 |
| ttcctttcca  | aatatctctg  | ctgccaataa | aaancctggc | cccnaccccc | ccancctattc | 540 |
| caaataatac  | cattccactt  | ttaacccccn | ctcgggccat | tccccttaaa | aaaacccccnn | 600 |
| naaa        |             |            |            |            |             | 604 |

<210> 9931

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9931

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atgaataaga | aagcttttta | ttttacaggt | ctttgtggga | agaaacagaa | agaaatcaca | 60  |
| aaagcaatta | agagagctca | aataatgggt | nagaaagaat | acctcaacaa | ctgaattgag | 120 |
| ctagctgaaa | ttttgctcat | tatgttttgt | caagaacttt | aattatctct | ttacagggtt | 180 |
| tatgccagtt | acatacaang | atcctgcata | tctcaaggac | cctaaagtgt | gtnacatcag | 240 |
| atatcgggaa | taaattctat | cacgttacca | ctaataaact | tattttacag | taagtgggtg | 300 |
| tatgatgcca | atactgactc | aaaccaacct | ttggatanaa | aagtgtttga | ggaatgaggt | 360 |
| aaanaatgac | acttccccct | cataccaatg | tccattaagc | agattgctta | tttaaaatgt | 420 |
| taacactcnt | cncattttat | ctatgttgaa | taaaaatggn | tcngtgtnan | tgtcctttan | 480 |
| atctgatccc | ccaatagctc | ctaccataat | cccttccat  |            |            | 519 |

<210> 9932

<211> 486

<212> DNA

<213> Homo sapiens

<400> 9932

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gatttaagga | atttctttat | tggaattcca | ctttacctcg | ccacaaggga  | gctggctttc | 60  |
| atgacaaaga | gagantgagc | cctgaacaaa | gtattcgtta | acatttttaca | acagacaaca | 120 |
| tatacatgtc | ctgcatgaca | tctttacaat | aacacattcc | aaaaacaatc  | aaacatttaa | 180 |
| caggattatt | aagaaacatt | aatttccttc | tctctagatg | actggtaact  | tagcttttta | 240 |
| gcttctgcaa | taaaatgcgt | tccttctcag | catttctatt | cataggaatc  | cctgaatcac | 300 |
| ttctgtcatg | taagggtgca | attcatgttg | acgggtgtgt | ccattantta  | ctgaatgtgt | 360 |
| caaaatcctc | tccacggtag | aaccttttat | tgtagcataa | tgtgtgaata  | cacttccagg | 420 |
| ttatccctcc | tccnaattc  | ctcnttcntt | atgggaattc | ntctgaaacn  | ttnaaaaagt | 480 |
| tcntcc     |            |            |            |             |            | 486 |

<210> 9933

<211> 502  
<212> DNA  
<213> Homo sapiens

<400> 9933  
gacgtaataa tctatTTTTA ttcattTTTA atcaaagaga ccattccatt tcctaacaaa 60  
caggtnagtt acaaaagtag tccattTTTAc ttttcatcag tctttccctg ttttgaacaa 120  
gtttttttga gaattcttag ttttagTTTT tgtttagctt acacactgaa aattttgaga 180  
agcatctaaa aaaatccaca attagtGcaa aaaganggga caatacttta agtcattcct 240  
tctataaaaa gaattaaggt tactaaatgc caattTTTaa gcaaataat agtttcctat 300  
ttgccttctg aaagacagca gatataaaaa tagttcaata ttangtttaa caagggtttg 360  
aacaacacat gttactatca gctttatTTT acctgcaaaa atatttttagc tacacttgga 420  
aaaaaataaa cttganaata taacttcccn tttcttangg cngaagccag aataacctatt 480  
cntttccntt taaattgnaa aa 502

<210> 9934  
<211> 333  
<212> DNA  
<213> Homo sapiens

<400> 9934  
gtacactttg ggatttatta agattctaga atttaaaaaac aggaaaangt gccattagta 60  
aaaactccat cactaacatt ttggtaccac tcgtanagcg tcacataaat attcagacca 120  
tgataactca ntgcaggaat gttatcaaatt atttccatgc aatctggaac tangaccaca 180  
gctggcaatt gggggtctga aagcccagaca tcccttacgc tgcttcctac atcttgacaa 240  
caggaagcca agtgatacta ngtnntgcac tacaacagtg aacataaccc ccctctgttt 300  
ttttgccnng tttttttaac naccaaccna aac 333

<210> 9935  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 9935  
ctagttcctg taacaaatgt attaaatatt cattctgaga attaatgata ctggcactag 60  
atggtgctat cccatcaggt aagtcaattc ctttaaaaaac aacattcgat ccttctgatt 120  
gtcgtaaaag actagtttct ttttcaagat ggtctatctt taaattagct tttgccaaact 180  
gctgtgaata atttatagcc tctttccgag attccctgag cccctgtctt aattcttcat 240  
ttcttccggt aagctgatca acttgggctt tcaaatgcan actcgcatca aanattcctt 300  
ctgcattctt tgattctata gcattaaacta ntctttcgag gctagggata attananatg 360  
tttctcctcc tttaacatca ggatctttct gcatttcctt aattgcttgc aatatttctt 420  
tcataccttc ttcaagttgc ttattttctt cnactaattc ttttaattta ttctgaaatt 480  
tggttatcac tgtcctactc ctttctaaat ctctttcttt ttcaattaat tctcttgaaa 540  
naaatcncnc cttgaaaggt gcnncccccn ntttttgaag ggcca 585

<210> 9936  
<211> 389  
<212> DNA

<213> Homo sapiens

<400> 9936

|             |             |            |              |            |            |     |
|-------------|-------------|------------|--------------|------------|------------|-----|
| cagtagacaa  | gcaacttttta | gtttttacaa | gttatagaaa   | acgcaaattt | tcatagcatc | 60  |
| aatttttagaa | aagaaagatt  | aaggttccca | tctgcggtgc   | tttttccaat | cgcgccatca | 120 |
| cccgtccctc  | tgaagaagca  | cgcacactcc | agatgtctcc   | ttcattgac  | acattttctc | 180 |
| ctggctgtct  | ctattcctaa  | gtcagagtta | ctcttgctgc   | tgctgctgct | gctgctgctg | 240 |
| ctgctgctgc  | tgctacngtg  | gtggcggcgg | cgggtgggtggc | ggtggctgcc | caagcctcat | 300 |
| ggttgtcagc  | tccatgcctc  | ctgaacttca | ctccactgaa   | atctggttgg | gtntgaaana | 360 |
| nacccngtgg  | aatgaangac  | aanaaaaanc |              |            |            | 389 |

<210> 9937

<211> 514

<212> DNA

<213> Homo sapiens

<400> 9937

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gattgtttgg | aatttattct | cttaaataan | aatgtaacat | ttgttaaaaa | aaaaattaaa  | 60  |
| agcacgacaa | cttggtttca | cagtaaacgg | caaaaacaaa | gttacacaat | taaataaaaa  | 120 |
| ctcacaaaga | aacacaccaa | gaactcacia | gagcacaagt | taaaaacaaa | ggcaaaaatg  | 180 |
| gaagtggaga | naangcgggc | agtaaacagg | cagcagtggc | gtgttccttg | gcacagctaa  | 240 |
| tcctctcctg | ttgggctctc | gtaccgccgc | cgggaanccg | gctggctgtc | cgcctctccc  | 300 |
| gcaggcacc  | caagctgaat | ggctccggaa | aaaaattgaa | accccttggg | tgccctgtct  | 360 |
| ngaaccttaa | aanggctatg | gtggaaactc | cttttgggga | cancctaaga | aattgttccat | 420 |
| tttcttgccn | aaaaanaact | gaaagatgcc | ctanccnccc | naaaaataag | aattgggctc  | 480 |
| aaacggctaa | ctccttggga | accnaacagg | aaac       |            |             | 514 |

<210> 9938

<211> 466

<212> DNA

<213> Homo sapiens

<400> 9938

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgaattgaa | tgctgcattt | attatagtgt | ttttattaac | aaactttcac | cagaaagtgc | 60  |
| cgagtgtgtt | aatacancag | gcacattggc | ttccatgttt | ggcatttgac | agtccacaga | 120 |
| attgcacttc | actctcacia | ttctgccaca | actttgtgaa | ttatttgggc | aagacctaca | 180 |
| accagcctcc | cccattaaat | gattaaatag | gacttttggg | tcattctgat | tgaaatgttc | 240 |
| tgagttcaca | cttgcatccg | tctgtgacaa | gctcanctcc | actttccctc | ctgccttggt | 300 |
| ttcantccct | ccactgcctc | canattgggc | acgtctctat | ttttacagaa | gtnccttttt | 360 |
| tttattctcc | ggggtcgcan | acactttttg | aattacgaat | ccaatngctn | ctgccaaaca | 420 |
| aaatnacaan | aggctctgcc | acctttggga | aaangcnctc | ctatgc     |            | 466 |

<210> 9939

<211> 482

<212> DNA

<213> Homo sapiens

<400> 9939

000220.69452560

|            |             |             |             |            |             |     |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| atcacttaac | atttaataat  | tgcaaatata  | tttattacaa  | tttacagatt | aattatgtta  | 60  |
| tatacacaaa | tataatttta  | actataaaaat | cccaactagt  | tacattttaa | ttattgatct  | 120 |
| gtagaagcca | atttagagtc  | ttctagtccc  | ctaactttac  | cttcctttaa | ttatacaaaa  | 180 |
| ataaaatctg | atagttttga  | tttcaagtta  | aagatgaaga  | agtgttacat | ttcatcactc  | 240 |
| agaaatggaa | cttttacctg  | tctgtacaaa  | gccttttaca  | tgctacattg | acacttaaag  | 300 |
| caccattaac | aagactttta  | atgtttataaa | atgttttaatt | aaaacctccc | aagaattttct | 360 |
| ctttaagatt | acgggggggtt | tgaacttngt  | tctaactaga  | aatngggatg | aaaacaaaaa  | 420 |
| tttggctttt | tnctcctnca  | gtccaacttt  | aaaatagtcc  | tttctgtcnt | nctaattccct | 480 |
| cc         |             |             |             |            |             | 482 |

<210> 9940

<211> 430

<212> DNA

<213> Homo sapiens

<400> 9940

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| atggtattaa | atataagtct  | tagcaccttt  | ggcatttttg | tccaaacaga  | cttcgacata | 60  |
| tgaagtgggg | acataaccct  | cttcactctt  | atttctccga | atgcgggtcc  | agccatcgcc | 120 |
| tttgtcttcc | tctatgacat  | acaatgtttc  | tccttcaact | acggaaatcg  | ttccttcatt | 180 |
| ctgaccttca | aatgtgtana  | gagctttgca  | cgtccctatg | gcaggaggagg | gctcctcatc | 240 |
| atcaaactcg | tcgtcaaaaat | cogtggccag  | caccttcac  | tcactctcct  | gantctgctc | 300 |
| ctctgtgtta | cttgccatct  | ggggctctca  | cgggtccttg | gggggcaatt  | gttgaatnnt | 360 |
| gggntgggtn | ctgggctgtt  | cttaaaaatcc | cgcctctgcc | ggggcgcccn  | gctctttgcn | 420 |
| ttttggganc |             |             |            |             |            | 430 |

<210> 9941

<211> 441

<212> DNA

<213> Homo sapiens

<400> 9941

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | n          |            |            |            | 441 |

<210> 9942

<211> 395

<212> DNA

<213> Homo sapiens

<400> 9942

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cacattctag | cactttattg | gaacttggtt | gtgtacatca | atgagatcac | atcaaantaa | 60  |
| aagcagcatt | ttcacacaat | aatatcccga | tatctgtgct | atcttcttac | ataatttaat | 120 |

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|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| aaatcccaan | atgctcctga | ttttggtatc | gaananccttg | agtgggtccag | aaatatctct | 180 |
| acntaaatat | aaatcatcac | atctnaaata | accatcattg  | ttttagtagg  | tcccaanagt | 240 |
| cctgggaaca | cctcttaaaa | tataattgcc | ntaggctggc  | tgcataactg  | gtgggaagga | 300 |
| attaaagggg | tacacatgna | cctaattaca | gcanganctg  | ggcagangga  | canacacaan | 360 |
| gggatggggg | gcanaaatcc | taaactgggc | aggga       |             |            | 395 |

<210> 9943

<211> 292

<212> DNA

<213> Homo sapiens

<400> 9943

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gtcattttat | tcttttaata  | agaaactttt | gcttacaaaa | acaangtgta | aaaagattta | 60  |
| caaaaatcat | aaaaacatga  | tttatatttc | acacttgaga | gacaaaaaca | agccccnnaa | 120 |
| catggatttt | aatggagggtg | gtttgcttca | ttttaaaagg | gaaaaaaaaa | aaaggaagct | 180 |
| gtaaccatac | attgatgtta  | acatagcatg | aantttattc | ttgaanaatt | tacnttggtg | 240 |
| agcgatatta | ggggaanaan  | ccatttggtg | ttgcatanca | ttttantgcc | ca         | 292 |

<210> 9944

<211> 535

<212> DNA

<213> Homo sapiens

<400> 9944

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gagacggagt | ctcgtctgt  | cgcccaggct  | ggagtgcagt | ggcgggatct | cggctcactg | 60  |
| caagctccgc | ctcccgggtt | cacgccattc  | tcctgcctca | gcctcccaag | tagctgggac | 120 |
| tacaggcgcc | cgccactacg | cccggttaat  | tttttgtatt | tttagtaaaa | atgangtttc | 180 |
| accatgttgg | ccangatggt | ctcaaaacttc | tgatctcaag | tgatccaccc | gcctcggcct | 240 |
| cccaaagtgc | tgcgattaca | ggcatgagcc  | accacgcctg | gtcaattttc | tttaactcca | 300 |
| tttttatcca | actaatcttc | aaaacacttt  | aaanatttag | ttataccaac | ccnaagtta  | 360 |
| catctatatt | tgtgttntgc | aaatcctcaa  | aaaaaatgcc | atccatgcc  | aaaaatgaaa | 420 |
| aacatttttc | cccatttaac | cttcnaaaac  | ctttttaaaa | aaacaaccct | atatttcccc | 480 |
| anttcaaatt | ttacccaaaa | cttcnttaaa  | antntntaaa | aaaaaanccc | tgcn       | 535 |

<210> 9945

<211> 588

<212> DNA

<213> Homo sapiens

<400> 9945

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| atnttttnt  | tttttttagt | ggncaaaaaa  | actttattag | cttagtctcc | acccttttaa  | 60  |
| atgtactcta | ggtacaaaat | aaacattata  | cacatataan | atcagtcttt | ccaacttttag | 120 |
| aatgtataaa | taagaatgac | atttttaaaat | aaaatagttt | agtcacagtc | acacaaaaact | 180 |
| accttctaag | gaaaactgtc | cagtgaancc  | gttaaatttg | tgctttcagc | tatgaaaaat  | 240 |
| taaacttaaa | atgcattcat | tcttctttta  | atgaaaaata | acctaccctt | ggaaacagca  | 300 |
| taagcattgt | tatggtagtc | tanctccnaa  | atgaaaatgt | ggactgagtt | acagtttact  | 360 |
| ggttggtanc | ccacctaaaa | acccttgaaa  | aattaccann | cgatcaaagt | atttacataa  | 420 |
| tttcaaccct | ttttcttang | anaaaaggta  | acacanttcc | ttaacctctt | ttaaaaggaa  | 480 |



ctttgaaatt aaaccttatg gtcncaactt tcattcaaaa atgttgotta aatatcaaatt 540  
ttctctcnca nacnccatnt tcatttcctc cgaaacctcn ctggttnc 588

<210> 9946

<211> 444

<212> DNA

<213> Homo sapiens

<400> 9946

actaggttca cacaaatctt tattaattaa aataggaacc attacaatca acacattttt 60  
gccaatgaag aaataagttt gtttactcct gtagcataaa aatccatgct tccaaatttg 120  
acgaactctt ggaaagcatt ttctgtgtcc tgctagtgtt ggaagcaatt tccctgcaaa 180  
acgttgctga gatgcctaaa naagtggtag tttgttggca anaggtcagg tgaatatggc 240  
anatgaggca aaacttcata gcccaattag ttcaattttc gaaacgttgg ttgtgcaacg 300  
tgcggcccaa tttttgtcnt aaaaaaatt gggccctttc tgggtggccaa tgccggctgc 360  
aggcattgca tttttingtg cncatattaa tttgctgaac ntacttanca aatttntggt 420  
tccccctgaa attcaaaaac cnt 444

<210> 9947

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9947

aggtttggtta acattaacac atgcttttatt caaganataa tattcaaaga gttaaattcct 60  
aagagttatc caccctacag taaaaagggg aagtgggtac cacttatgac atgtacataa 120  
attccacttt tatatttctg aataaagctg caattgcttc ttgatagag ccattttctta 180  
aaacttttgc taataaggct atgtgaactg tgttcanaaa ctttgacaac atgcacactc 240  
actcctctca aagtcagtac ccaggatttt cactccaggc tgagtacctt ttaagtaact 300  
aggacttcag actgcatgtt actatatgaa ttcaatttga ctcacctcca gtatgtttat 360  
ctaccacaac tattgtttta aataatcaga tgaatgttta tcataacttt ataactcccc 420  
caaattatac ttcagtattt aacatggtag tttcaaaaaa taaatattca agggcccagt 480  
tttaaatatt cctcccatgt tatccacaaa agttgaanaa tacatgtttg gancccnact 540  
cncaaataat gttaccttcc tttaaaatta cttgttgcca taaaaatta 589

<210> 9948

<211> 295

<212> DNA

<213> Homo sapiens

<400> 9948

aaaatgctga ctggtgacct actaaatgga tttcataacc cactgtgtct tgactcccgg 60  
acagtgtgaa aacctacata caagctcggc ttccagagcc tgatgctcca ggctggaccc 120  
tcgtcggctc aggcaagctg ctctaaccag gccccactcc agctccagct ccccaagatg 180  
ggggttagaa aaacgtcnac atgcaggag ggccacaaac aggctgggct ggcatgangt 240  
atgangtatg aaccncatgg ctgagcaana acctgggcca ggtcntanac tccca 295

<210> 9949

<211> 213  
<212> DNA  
<213> Homo sapiens

<400> 9949  
aagatttttc tttttcttca aacttttagac ctggctcacg gcgagcctta gaaaagcagt 60  
gagtgccaca gacactgcag ggtgaggccg agggtgcccc gcacggccca gcaggctcctg 120  
cctggcagtt tctgctcaaa aggctgggac acacaggatg gggcgcgtta acacagggga 180  
ggggggggcg gatttanenc nccntnnacc ctn 213

<210> 9950  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 9950  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
nnnnnnnnnn nnnnn 554

<210> 9951  
<211> 593  
<212> DNA  
<213> Homo sapiens

<400> 9951  
cttcccagct tgagttttat tataaagaat aatacataca gttaactatt ggtaagaaac 60  
gtatatataa caaggtgtct gtagataaaa acacataaaa caaaaatatg tattgggttg 120  
atgacaaaaa tgtantgatc agaggcgtgg aagctaaccc tgtatttctc cangancagt 180  
ggttcagtat gggctaatag tgttcacagt atcttttagag aacatactcc agcactcacc 240  
aaggccatgc ttcttgcac acagctatgc ttcttgcacc caccaaggcc atgactcttc 300  
caggtaaacc caaataaggg agaaaggagg caataacagg agcggggang agtccctgaa 360  
atcccctcct tttccagaat acctaataag cattccaccc ctttattaaa aaaacatccg 420  
ggctgggagc ggtggctcac acctgtaatc ccaccacttt gggaagataa gcagcnaatc 480  
nggaagtccg gaaatcaaaa acaccgggct aacacggtga aancctntcc ctctaaaaat 540  
taaaattttc ccccggtttg ttgccggccc ntttncccct cncggnggt nag 593

<210> 9952  
<211> 403  
<212> DNA  
<213> Homo sapiens

<400> 9952

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gagacanagt | ctcactctgt  | cgcccagcct | ggantgcagt | ggcganatct | tggtcactg  | 60  |
| caaactctgc | ttcccagggt  | caagtgatct | tccagcctca | acctcccaag | tagctgggac | 120 |
| tttaggtgtg | tgccaccaca  | cctggctgtt | ttgtattttt | agtacagatg | aaatttcacc | 180 |
| atgttggcca | ggctgggtctc | aaactcctga | cctcaactga | cccacctgcc | ttggactccc | 240 |
| aaagtgctgg | gattacaggc  | gtnagcccca | agctgggctg | cccttgagga | actgantgtg | 300 |
| gctctcaggt | cattcccat   | attcacatca | tgaatgaaan | anttgtcaga | ngcaagtnnc | 360 |
| atgttaggta | atggggcgac  | agcacactgg | gancaangtc | cca        |            | 403 |

<210> 9953

<211> 572

<212> DNA

<213> Homo sapiens

<400> 9953

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| acaaatttca | atctatatan  | antttaattt  | gtgcatttgg  | ggaaaattta | tgantgcaaa | 60  |
| aaacacttgt | tttcttanaa  | tgacatantg  | aaagggacat  | ttcatttgaa | tgcatagtgt | 120 |
| acattctaaa | atataccta   | ttctttacaa  | agtgccttgag | cagtcncata | cacatacagt | 180 |
| aatagcaaaa | tatattttaca | ctctataaaag | cttaaaaattt | taaatctgac | taaaaatata | 240 |
| atatatttta | aactacaaaa  | aattagtgct  | ttcttcagct  | taattgtgta | aatagaccct | 300 |
| gccttcta   | tttttttagtg | attgacttctn | attaaaaaaa  | aaattctgta | cactgtgtng | 360 |
| ttacaaaatg | ctgtcagttt  | ttaatgctaa  | gancctattt  | tagacattac | tttctttgct | 420 |
| atttgagaac | ccaaaaagtg  | agcagactgt  | notccaaaat  | ntttangggg | ttaattta   | 480 |
| gttgttttac | ccggtttaat  | ttaaacccca  | aaaatnagcn  | aaattcccn  | atgttccttg | 540 |
| gccaggaaat | aactggcnctt | ttaaaaactt  | ta          |            |            | 572 |

<210> 9954

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9954

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| ctgttcctaa | cacaaatgtg | aattttattgg | ttgatttgat | atttaaaata | gtactttttac | 60  |
| aaaatcatct | cagaaaatat | actacattta  | ttaaaattcc | tacaaaccat | tgacagaaaat | 120 |
| attaaaccct | ctaaccaacc | taacactcgc  | tttcagaggc | acttgtgatg | attttcacag  | 180 |
| cttccatagt | tgcaaagaac | aaagaaatca  | tcttccaaca | ggggtggaat | tagataagaa  | 240 |
| taatccaaaa | aataatttat | tctttacaga  | ctcacagatt | gcttgatgtt | taggggctct  | 300 |
| tacctaggat | acctaattat | tcaaggtttt  | cctaatttag | tanacttttt | cattgcctac  | 360 |
| aatctacaat | attcancaaa | gtattaaggg  | aaaatgaacc | caagaaacct | taaccacctc  | 420 |
| aaatantttt | atggatatac | ttaaactgtcn | agttcaatct | ttatcttaan | acttganaac  | 480 |
| tggaatgccg | gaaaacnaac | tttgggtgga  | attctggaat | taaaaaantt | aaacctgggc  | 540 |
| gaantaaggt | gtggcacctt | gtttntttnt  | tccnaaaacc | caaccctnga | c           | 591 |

<210> 9955

<211> 585

<212> DNA

<213> Homo sapiens

09629469.072600

<400> 9955

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacggact | ctcgtctgt  | cacccaggct | ggagtgcagt | ggtgccatct | cggtcactg  | 60  |
| caagctctgc | ctcccaggtt | caaganattc | tcctgcctca | gcctcccag  | tagctggaac | 120 |
| tacaggcacc | cgccaccacg | cccggtaat  | ttttgtatt  | tttaatggag | acgggtttca | 180 |
| ccgtgttagc | caggatggtc | tctatctcct | gacctcgtga | tctgccacc  | tcggccttc  | 240 |
| aaagtgtg   | gattacaggc | gtgagccact | gcgcctggcc | tcaaggtatt | tctttaaaaa | 300 |
| tggaaattaa | tatcaaaaag | taagcttttc | agaaaacaca | ttcctaactt | taataaagac | 360 |
| aaaagaagcc | atttccaaca | aaaagtaaca | cttaatatc  | taagactccc | cncaactttc | 420 |
| agattttaat | ttcaaccttc | ctgggnaagc | tccctgcttc | ttagcctttc | catgtanana | 480 |
| tcatctgtg  | atcctttccc | aatacacata | cattaaatta | gggctngggg | aagggaatt  | 540 |
| ttctttanaa | tcngcctcct | ttggtontga | tttcancaat | ttaa       |            | 585 |

<210> 9956

<211> 501

<212> DNA

<213> Homo sapiens

<400> 9956

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gagaacacat | tcgtatTTTT | tgacccanac | caaaaacttt | tggtcctttt | taacgggtaca | 60  |
| ttcctacatt | anaaaataa  | ttagtataa  | atatattctc | ttttgtaca  | aattcaattc  | 120 |
| cagtttttaa | caccctaatt | cacaaaattc | atgccaatgt | atgcgctgat | aggctgaagc  | 180 |
| caagctgtga | aacttcanaa | cacagttaag | ggcagcaatc | aagcccgttc | caggctgacg  | 240 |
| cgcagggcgt | tcttacatca | catcccgggg | tgccagctca | accccggcac | gtcagcacct  | 300 |
| gggtgaaggg | agtgcggggc | actgatggga | tcaatacaag | acacagaccc | cttcogtcgg  | 360 |
| gagctggcta | atctctacag | tgccccacac | caactgattc | tatcaggctc | caagggctcc  | 420 |
| cattgaagaa | aaaggctttg | nccctctgaa | tcctggggga | ntttttttcc | nggcaaaggc  | 480 |
| ccntntttt  | cncaaaccnc | c          |            |            |             | 501 |

<210> 9957

<211> 553

<212> DNA

<213> Homo sapiens

<400> 9957

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aatatagaga | actgattatg | ttcacttgta  | acctgtcatt | ccaaaattct | tcaggatggt | 60  |
| taatgttcaa | gtgtccatat | tcccagtccc  | actggatgcc | tgccangatg | caaccatctg | 120 |
| aatgagtgg  | agtataatgt | ttgcaccagg  | tattatatta | ggagccttga | accagaata  | 180 |
| tgtctgatta | agtcttttag | cccaataatt  | tgccactgat | gccaagtctg | gtaattttga | 240 |
| aggagaaagt | tcaaccataa | cgggggtgata | cagggcacc  | ccgtactcaa | aaaactttca | 300 |
| aagtgtttc  | taaacaagtt | tctctttctc  | cntgaatata | acgtcagtca | caactgatgg | 360 |
| cagtacaatc | gatccatcca | tacactgctc  | taagaacatc | ttgatgggta | taatatgctg | 420 |
| tcttcatgct | ctacctgcta | ctaatttaat  | ttggtccngt | tactcttccc | tggganaaac | 480 |
| naattcntct | taaatccaat | tccttttnna  | ccaaaaanaa | atgatttccc | ccctgggcct | 540 |
| ccctttaacc | aac        |             |            |            |            | 553 |

<210> 9958

<211> 436

09629469.072800

◁213▷ Homo sapiens

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| ctgtgtcatg | atttataaatt | gtatgcatgc | tttgatcttt | ctcatcacag  | gcagcactga | 60  |
| naagtgaagg | aataatttggg | aggatcagaa | gcttggtcct | gattttgcca  | tcaacaggaa | 120 |
| cttgatgact | tcaagggagt  | ccccaaacc  | tgggtttctg | ttttctcaac  | tctaocatga | 180 |
| ggggctanat | gcactctggtt | tagttagtct | ccatgatggg | ttagttcgtc  | tccatgatcc | 240 |
| tgtgaatttc | agatgttgaa  | aatctttgga | aaagccctga | aagatgaaca  | ggtaggagtt | 300 |
| attgtctata | ttttacccat  | gaggaaacta | aggacctggg | aatctanang  | gctcattanc | 360 |
| ttttgaacca | gtactagcaa  | tgaattcatc | tgaattctgg | tcccnnaactc | ctagcatgan | 420 |
| anaaatttga | nctttc      |            |            |             |            | 436 |

**<211> 526**

<213> Homo sapiens

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gggcacatta | taatatttaa | tattctgtag  | tttaattttc | tgaacctttg | gnttataaat | 60  |
| ttttctcaac | ttacatttaa | aaatgtatca  | atgcaccttc | ttcagtagta | ccacatgaaa | 120 |
| atataaacct | cgttcttcca | tatctttctac | gcaggaanag | tgaatgaata | gtaccctaaa | 180 |
| tatcccgcaa | agttactttg | tgtncttgac  | ggaanattag | ggaaaaacaa | tccacctcca | 240 |
| tatcttgagc | agtagttaac | tagtctttcta | cctcatcttc | ccaaatatcg | tcgtcaacat | 300 |
| ccacagcata | aaacagccgg | ttaaaacatg  | gtgaacaggg | tcattgaaat | gtttgtaagg | 360 |
| gtttgctcta | caaaaaaaaa | catgcaaatc  | cccagaaata | ttgcatacac | cngtacatgt | 420 |
| ctcctgttac | atcccgcta  | attctctatg  | ggantttccc | cacatggggg | gctctttgaa | 480 |
| ttctccctan | ccacccctaa | tttcancctt  | ccnanngcct | cccgna     |            | 526 |

**<211> 558**

<213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtgctaaatt | aatcatagag | cctttaatcc | actagtaatt | tggagtgaat | tttattaaga | 60  |
| agaattaatt | gtaagtacat | gttaactttc | gtgtcaggat | aaattgcac  | tttaaagct  | 120 |
| aagtgatctg | tgtacattgt | gatagggcct | ttcactttgg | ttgaaatcct | aggtttgaaa | 180 |
| ctgtgcctgg | tttacagtaa | ctaaaattaa | ctctagctgt | gtggctcctt | atatagtgtt | 240 |
| tatcatccca | atcagatata | tctcatctga | tgtcaacttc | tgagtccaat | aatcagacta | 300 |
| notccanaaa | gcacagggaa | agtgggtgtg | acctctangg | actgccctct | gctttgtgga | 360 |
| aaggcttgg  | taattttcca | ttanagattc | aaccaaccac | cgacccaacc | tggaatttaa | 420 |
| taacaagctt | tttgttgata | agtttatcnn | tgaaactagc | tatctgttct | aagggactgn | 480 |
| atcctccttt | gaaacacccc | ggcttnaaaa | atccnctgaa | ataaccnttg | gggaaaactt | 540 |
| gtttaaaaag | gnnntttt   |            |            |            |            | 558 |

**<211> 583**

<212> DNA

<213> Homo sapiens

<400> 9961

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aagaaacagg | tctcactctg | tgggccangc | tgggantgca  | atggganaat | catagcccac | 60  |
| tgtaaatca  | aattcctggg | gccaagcaat | ccccctcag   | cctctgggag | tagctacatg | 120 |
| tgcaacatg  | cccgctaatt | tatcttaatt | ttttagaant  | taggtcttgc | tatgttgccc | 180 |
| aggccggtcc | tgaagtcctg | gcctcaagcg | atcctcctgc  | gtcagccacc | caaagtgctt | 240 |
| ggagtagaag | tctgagctac | cacgcctggc | cctgaaagct  | attttatgga | agaatttaaa | 300 |
| ctaaagatct | ccaaatatta | ttcataatta | catacccatg  | ttggtatcta | tgtttactta | 360 |
| tctaccattt | ttataggatt | tacaatatga | caatataaaa  | taatcgtctg | tttcccccaa | 420 |
| atagagcata | agaaaaagac | taaaatttgt | tttattttatg | gtacnaaant | ttgttctccc | 480 |
| aaatatttta | aataaaatat | tgaatatgct | cnttatttcc  | gaaaatctaa | caccgggtna | 540 |
| tncnaaatcc | aaaatttttc | ctactcnntt | gnaaattgaa  | ttt        |            | 583 |

<210> 9962

<211> 477

<212> DNA

<213> Homo sapiens

<400> 9962

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| cacaggatga | caaactatat | ttcaaaaactg | aaaaaaaagca | aaatgtttat | atctcactcc | 60  |
| tgaacacaaa | attaacatca | gacttaagaa  | aataaggcag  | atactagtag | tactaagttt | 120 |
| tcttgaaact | gtaaaatata | tataaaaatg  | aaaagatacc  | gaatgtggac | agctccacat | 180 |
| tgatcaacaa | atgttaacat | tctcaatctc  | tttcattgac  | tttaaaaact | atgtnataga | 240 |
| aacagaaaat | gaactaatac | acaaatgaag  | tacaaatatc  | ataattttca | gaaggtttga | 300 |
| tttttcgagt | accataaaaa | aactgaaata  | taaatatttt  | ggaaatagtt | ctaagaaata | 360 |
| aatatgaaaa | tattttgttt | ggtgtcntaa  | cacanaant   | atccnttttc | cccaaagtgt | 420 |
| agggatccat | tattttatga | attaatttgg  | gggnccttgt  | tttatccata | ttgncnt    | 477 |

<210> 9963

<211> 528

<212> DNA

<213> Homo sapiens

<400> 9963

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| caaggtgagc  | ctgatcacag | cctcggtagt | atttattttg | aaataaaaagt | tcccatccct | 60  |
| tgtaggcctc  | gctgtgaggc | acaacgtott | cgaggggaag | ttgaantggg  | gtcttcttat | 120 |
| tactgggtcc  | ctaaaccgca | ccttctggta | tcttctaagg | caattctggt  | accgcactgt | 180 |
| gtctgggttg  | gcctatttta | atgtctganc | cagctgttcc | agnatttcaa  | tgantttctc | 240 |
| ctcttcggcc  | ggtgaggaag | accctgtnnc | gaaaggcaag | tntgtaaaaa  | ctggcttccg | 300 |
| atctaaaagt  | gananggaac | gcaaaaangt | gtgagctgct | gcancgtggc  | tgggtccatg | 360 |
| tccctgtgct  | gctcangcct | tgaacgaccc | tgctggantg | gcagcaccct  | acagctgtta | 420 |
| aacccccatcc | ctgctgtcaa | aagtcccnca | nggatcaggc | ancatggatt  | gatatnttaa | 480 |
| ntgcatttgg  | gaactgggaa | gctgcaccca | ggntngacag | gaaaacac    |            | 528 |

<210> 9964

<211> 581

09629469.072800

<212> DNA

<213> Homo sapiens

<400> 9964

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aagaaattag | acttttatca | atacacaaat | aattttactt | aaaatcaacc | cagttacata | 60  |
| tttttaaaaa | attgcagaac | ctctccacac | caatgtccac | agcctagaac | aggttcatgt | 120 |
| gaaacctgca | gtcctacccc | ggagcatcag | ttaagtgatg | gtccaggtag | tcactgacac | 180 |
| gtttctcttg | acactgagat | ggtcgcaaac | aaaacaccgt | tcttgccctg | atgaagcaag | 240 |
| agttcacata | aaagagcttt | ataaaatgtc | tatgaaggag | aattgataat | atcagaagag | 300 |
| ctccagcact | tcaattgaat | ataatcctct | attattcttt | tcttgattta | atttctgtag | 360 |
| ctcccgaaaa | cttacttcaa | tcttgttgag | ctcagaataa | acagatatct | gagattttac | 420 |
| aagcttggtt | agattttatc | gtagcctctt | tgcttccggn | atcattacac | aacagttaaa | 480 |
| ttcgctccag | aagttgactt | tcccatccat | aatctgggtc | agggaggggg | tgtttcccng | 540 |
| aaaatcttnt | tctnttgcga | cctccnggtc | ggaaatcaat | c          |            | 581 |

<210> 9965

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9965

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| aacttttttg | taatttttatt | gttttggat  | atagttat   | tcataaaagt  | gttattcatg | 60  |
| tcaaaataca | atggttttgt  | actgttatt  | taaaatacct | taaaatctta  | tttcaatttc | 120 |
| gaatatgaca | aatattaaca  | gctataaccc | atataacaga | agttctcttg  | atctttaata | 180 |
| attttcaana | atgtnaagg   | gtactgtttg | aaaacttcag | gtgaggaggc  | agaatctgca | 240 |
| agacttgctg | actaactaga  | caaganaana | aaggctggag | gangaactca  | ngatggctct | 300 |
| tggatggtac | ttgaaatang  | caatacagga | aatgaaaaca | gtttangttg  | aagggtttg  | 360 |
| aaaaagaagg | gntaaaaaaa  | tttggtttta | tttgaagtgg | tgagtctctac | atgaaattta | 420 |
| tgaaaaatct | ggaattccaa  | aaattggtct | attctaaaaa | tacnaaatgg  | catnttttgt | 480 |
| ttcttttnaa | ctgggggaaa  | agattacctn | aaacccttat | tttgaacccc  | cctttgtttt | 540 |
| ataaaaaagt | ctcncacaaa  | atttattaat | tcttcttta  | nggcccaat   |            | 589 |

<210> 9966

<211> 571

<212> DNA

<213> Homo sapiens

<400> 9966

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atattttag  | gcacaattta | ttttaaaatc | cacacaagaa | accagaaat  | gcagcattat | 60  |
| cttcagacat | cacattctag | ctctgtttta | ataccacata | tgctaaaaac | cgacgccagg | 120 |
| acattctcta | aatgagttac | aaatcagttt | ctgggaaagg | aatgctccat | gaaaagctta | 180 |
| tagcaagata | actcaggctt | tcagggtggc | tatggcacgt | gaattancct | tacagtaatt | 240 |
| gtgtacatag | tatgttttag | cattattgaa | tcaaaagt   | caggaagtac | ctttttta   | 300 |
| gcatacgctg | agagaaccgt | caatatgcct | ttgttcctgc | tgagggatct | gccattctgg | 360 |
| aggtacaaat | actgcagata | gaatatcacc | gcaggactac | gtcnagtcca | gantgttcag | 420 |
| gatcatttct | atataaaact | acnattagct | gaactatggc | caangtcctt | gaacataaan | 480 |
| ccttcttctn | ttcattgcat | cttaataagt | taaaagccnc | taccgnnaat | gccgcctatc | 540 |
| cgttttttan | tcccctttta | ttttgnattt | c          |            |            | 571 |

<210> 9967  
<211> 588  
<212> DNA  
<213> Homo sapiens

<400> 9967  
gtttttttatt taaaataatt ttttaatcgg ctgatagttt taaaattatt taaaaacact 60  
atggggggggg ggatgaccca ncaatataaa ctgatattta ttaattttaa aagccaatta 120  
ggcatgtcct gttatcccag tggaaanata taaantanct atgataatga atgtgggctt 180  
tgaattttta aaaactttca antcttggct atntcactag ccaacaattc tgtttcctca 240  
actgcaaant aagaataata ataatgatcc tacaagggtg ataaaaggat caaatggaaa 300  
aaacagtnn ttgtggataa aggtacaaat aaaattatan atantctctt cnttccaaaa 360  
aggggggaaa gtattttctt tcaaacttgc caagggggan gaatgtaaat gctanctcat 420  
tcttcctant aacaaatnaa gtaatggttt caaagggtact gctcagtcca aaacccaaat 480  
tccccattag gatccccctt aancctaaat cccctantc ctttttttaa aaaaaaatta 540  
ttaaacttna acccccactt tccaacntga atcttaactn taaaaaaa 588

<210> 9968  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 9968  
ggaaggggacc actgccttta ttgcctctgt gctgggggtcc cancctgggg ttcaaaaagcc 60  
tctggggggca ataggtgacc ctggacccaa attattgcta ctgtgctagg tcaccttggg 120  
gcttcccata ctgccctgaa aatgggtggg atganggcat gcaaacaata tgcaaatgac 180  
atgcaaacca acccanangc ctctggcaca tccatgggtg ctggaaaaat caaacctan 240  
tggcctnnga aggcnacngg gcaccca 267

<210> 9969  
<211> 449  
<212> DNA  
<213> Homo sapiens

<400> 9969  
aattatactt taagttctag ggtacatgtg cacaatgtgc aggttagtta catatgtata 60  
catgtgccat gctggtgtgc tgcacccatt taattcattt agcattaggt atatctccta 120  
atgctatccc tctcccctcc cccacccca caacagtccc canagtgtga tgttcccctt 180  
cctgtgtcca tgtgttctca ttgttaaagt gctaaacatg gtggctgact gcttctgagc 240  
tggaagtga ctgagttgaa agttattggg agacagatac actattgtat aaagtggaaa 300  
ctgaggaatt attcatgctt ccatggtinca ntattctcat gttcccttcc tccaccttcc 360  
acaagcttaa ananaaacat gccttgaaaa gggncagggt tgggtcttta tcaaaaancc 420  
nccccaccaa acnctaaggg naccatttt 449

<210> 9970  
<211> 582  
<212> DNA



<213> Homo sapiens

<400> 9970

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| ggtagtcaac  | ttgtaccaag | tttagcagca | agangataact | tccttagaga  | ctttcagtgg  | 60  |
| acttaaaactc | agtttccgct | ggtgctatgt | aaagcatcca  | caatggtttt  | attgtactct  | 120 |
| gcaatctgct  | tggtcacatt | tttcttaatt | ggctggtaat  | cactctcttg  | actcttggtt  | 180 |
| gctatgaatt  | ctttcatcgc | aaaattattt | tgctcaagg   | gttgccaactt | tctctccaaa  | 240 |
| tttghtaagct | gagaatgtgt | ctcattttct | tgcaattgtg  | tttttagtgc  | ctcatactct  | 300 |
| atgttttctg  | tctccattat | tttcttaaa  | gcatttctgt  | gggttgataa  | tatcattctc  | 360 |
| tcctgatgta  | atttctttat | cttttcttca | cctgatgatt  | ttaaagctgg  | caaatacatta | 420 |
| tatatctcca  | gatcagttgt | catttgctta | attttgcttt  | ttaaaaaaag  | ctgttcctcc  | 480 |
| ancntcctaa  | tttcnaaaaa | ccccatttct | gcaaatcaac  | tgcaaanntt  | naattctaaa  | 540 |
| tcaatctgaa  | cctgtctgtt | nattccgccc | tccataaatt  | na          |             | 582 |

<210> 9971

<211> 596

<212> DNA

<213> Homo sapiens

<400> 9971

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| atttaataac | attgtttaat | aaaaaactac | atattttaaca | gaaaagtgtg | taaagctaca | 60  |
| aggtaaaggc | acattgaaag | agaatgcttt | ttaaatccaa  | ttttcaggga | attcacttta | 120 |
| catgtaaata | aagcagaaaa | tgcaggaaaa | ttattttgaa  | gtttttcact | acttaacaat | 180 |
| ttctgggaaa | caaagtcat  | cctattttcc | catagaggac  | ccctgttaaa | atataagatt | 240 |
| atattccct  | atactaggat | tcagcattca | aataaatcac  | tagtccaact | tcaatgtcgt | 300 |
| agaacccaaa | aaaaatataa | ctatcctaaa | aataatataa  | ttaaaatata | atttatagtt | 360 |
| atactaaatg | ggaataaaca | tatggcacac | attaattaca  | aaggatactt | catgttacta | 420 |
| gaaagtgcc  | tgtaagaaaa | ttaataaatg | acctaaaact  | aaagcattta | ggataacaaa | 480 |
| catcctttta | cttgctatct | tttaaaatgc | tgcttaggga  | aatccaatgg | cccttaaaaa | 540 |
| aaattgttcc | aatattccac | ttttttggaa | acttttncn   | gaaataattg | aaggcn     | 596 |

<210> 9972

<211> 424

<212> DNA

<213> Homo sapiens

<400> 9972

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| gtatgtaaca | gaacacattt | cagattgtat | ttaatTTaaa | tatttgtata  | taagagcaaa  | 60  |
| tgtctgaatg | tgccctgaat | caagtttaaa | tattgttggc | tcatactgat  | tatgggtgcct | 120 |
| aagagagcta | tatatataca | catgtaaagt | ccattgtttt | tattgtcctg  | agttgtctta  | 180 |
| aacctgcaaa | atatacacta | ccattttttt | ttttccattg | gtttcagact  | tggttcaatt  | 240 |
| aanattgggt | ggggattttt | ctcttttctt | tattaacat  | gttctgggtat | canaatgggtg | 300 |
| ttccttctcc | atcagaggct | gggaaacgta | ttataattag | tttttctccc  | ccataccttc  | 360 |
| ccccagaac  | aatgaaaaat | aantnaangg | tggaacnttc | ctcctnttaa  | attnttgcnt  | 420 |
| aacc       |            |            |            |             |             | 424 |

<210> 9973

<211> 550

<212> DNA  
<213> Homo sapiens

<400> 9973  
gaccttctca atgactaaaa cattgggagg ggggaaaaaa gaccaagtgt tacacaaaan 60  
aatttttagtg aaattattgt ttttattgct tttaatccct tgacgccggg agttgggatt 120  
tcccggcaca cttccattgc cggcaatgan acgcaccgtg accgccagcg ccaaggggtt 180  
aacatatact tgtaaaacca tataactctt aatttgtacc cgtgtcttta ctcttattga 240  
tatataaaat tatatataca tatgaaccat atagctacat aaaacttagc aacaataaaa 300  
ataacacaca ttaatacaat tcaaagaaaa attaacccct tatgctggat aaatctcatt 360  
tctgtttttt tattgtcttt tatgttaaac tttctacaaa aggatgtata aacgggtaag 420  
tanaaaatct ctatctacaa aatgttttct cttttaagta ttacattact tgggtttcnt 480  
ttaatanact gacattttta nccntttaaa atccttttac nttatacccc gcnaaatact 540  
ttaaaccccc 550

<210> 9974  
<211> 201  
<212> DNA  
<213> Homo sapiens

<400> 9974  
cacacagcag gagcagcagg atgctccaga tgtctttatt ggggctcgag cacagcatga 60  
cagttggagg catgcagaca gggcacaggg cccagccttg gcatgcccc aacacacacg 120  
aggggacagc tttagaaaag gactgaccaa caccagggag gagcagggag ggagggccca 180  
gggaggggca nccnnnctn n 201

<210> 9975  
<211> 460  
<212> DNA  
<213> Homo sapiens

<400> 9975  
gtaaataaac aattttattg ttcatcttca catatgtgaa agacatcact acagcatcca 60  
ttactctcaa gttacaaagt tataaaacaa gattttaaaa cttaatatct tgataagggtg 120  
cttaacttct aaacaaggaa aaattaacat tgtttttaaa acttactgag ttattatgca 180  
totaatgcaa gttttatcca aaagtaaata taacatgaca tatccctaata acaattaaat 240  
aatctataat taataagctg agaattgggg ttcaagacca cagtttgaat ttttaaaaaa 300  
tataaataag tccattagca cagtaagttt tgactacagg cctgttatca atctatgtca 360  
tgaagtgaca ttactttaac ncattaggaa acanaggtta ntaacaatca atacctcncc 420  
tttangtcta ttgctgatac caattganat gtnttttaaaa 460

<210> 9976  
<211> 308  
<212> DNA  
<213> Homo sapiens

<400> 9976  
gtttttcttt cacagacact tttctgaatc aattctctac agactctctc ccattcagaa 60

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| tcagttgggt  | ggactgatga | ggnaaaaaat | aaatttccttt | taaaaaacia | aactggagcc | 120 |
| tatttacaaa  | acatgcaaag | ggagaatttt | aagcagggtgt | tactgcagaa | ctgctcagac | 180 |
| gtgaatacag  | ctgagtgaca | gaatatacct | ttactttctac | aaatataggt | cctncctcca | 240 |
| gacttttctgg | aagaaatacn | ttttcagggt | gtggactata  | aaatggcnta | cantgctaan | 300 |
| accnanac    |            |            |             |            |            | 308 |

<210> 9977  
 <211> 600  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 9977 |            |            |            |            |            | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 600 |

<210> 9978  
 <211> 598  
 <212> DNA  
 <213> Homo sapiens

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 9978 |             |            |            |            |            | 60  |
| gagacaaagt | ttcactcttg  | ttacttagac | tggagtgcag | tgactcgatc | tcggntcact | 120 |
| gcaacctctg | cctccccagt  | tcaagtgatt | ctcgtctcag | cctcccaggt | agctgggact | 180 |
| acagggtgat | gccaccatgc  | ccagctaatt | tttgtatttt | tagtaganat | gggatttcac | 240 |
| catgttggcc | aggatggtct  | caatctcttg | acctcatgat | gcacccacct | cggcctccca | 300 |
| aagtgctggg | gttacagggt  | tgagccacca | cgcccggcct | actatttctt | tctgtatgtt | 360 |
| cttgtggggc | tggtgttttag | ctcccactta | taagttagaa | catgtantat | ttgtggggaa | 420 |
| aagananatc | ggattgttac  | tgtgtctgtg | tnгааагааg | tanacatagg | agtctccatt | 480 |
| ttgttctgta | ctaagaaaaa  | ttcttctgcc | ttgaaatgct | gttaatctat | gaacttacct | 540 |
| caacccccgt | ctctctgaaa  | acatgtntct | tgtcactcca | gggtttaatt | ggattaaggg | 598 |
| ctatncaaaa | tttcttttgt  | tnacnnaatc | ctgaattcnc | atgcncctta | aaaatctc   |     |

<210> 9979  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 9979 |            |            |            |            |             | 60  |
| ggcaggccaa | tgcaagtttc | tttactgaaa | ggtgggtccg | tttcaaaagg | acagttttgga | 120 |
| cacagaatag | acaaacatta | nagtttgana | gttttccctt | gagttttgca | aaacaaaaca  |     |

09629459.0.2300

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| tctagtaact | tcagtattca | ccaggaaaaa  | ttccccagtg | cctctccctc | cagccctttc | 180 |
| tcctgcctgc | cttcaggatc | accccttgtc  | tcatagggtt | tcatttttca | gttctccttc | 240 |
| ttggatanan | tctatcctgc | ccgcagggtga | nccctctctt | cccatgccaa | atttccatct | 300 |
| aacccttggt | ctgaaacagg | tgcaggcttc  | anccaantgg | aaaactgctg | gggtgggtgc | 360 |
| tgcctancct | ttgacggttg | ggtaaggaaa  | aaacgggtta | aanttagggg | natgggctcc | 420 |
| attctgttgg | ccaagggtta | acctggcttc  | totcattcaa | tttncncat  | tggcaaaaaa | 480 |
| tgtaaccctg | ccatttcttt | atnaaaaaatn | tataaanttg | gccnc      |            | 526 |

<210> 9980

<211> 515

<212> DNA

<213> Homo sapiens

<400> 9980

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| aatgaaagaa | agttgataat | ttaggaaaaac | caatgggatg  | acatgtttta | ctagaattac | 60  |
| aattcaccaa | atcttattga | gggggtgggg  | aagaagaaaa  | cctgaaggca | ggcaatgcat | 120 |
| taaaagcatc | aataaagatt | tctgggtgcta | ataaagttca  | ctgacaataa | gaactttact | 180 |
| ttcttccacc | taaagaagtt | tccttaagta  | ctaactttta  | aaagtccatt | ctgtcatgat | 240 |
| atgancctgt | tcactgaacc | gtgaggaaca  | aggatgaaaa  | ataagaatag | aaagagtatg | 300 |
| gttcagcctg | agtctaagtg | gtctgggtgt  | ttatgatgac  | tctaccaa   | gtttaattta | 360 |
| aagtcttaat | ttcttatttt | taattataat  | gttgccaaact | gtctgactga | ccttgaanga | 420 |
| tcagggattt | ttccacgact | ctaactgaac  | acnagatcct  | tctcaaacgg | gganaatgaa | 480 |
| atgacnccgt | gttctatctg | cncatttnt   | ncact       |            |            | 515 |

<210> 9981

<211> 488

<212> DNA

<213> Homo sapiens

<400> 9981

|            |            |             |             |             |             |     |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| gagacagant | ctcactctgt | caccaaagnt  | ggantgcagt  | ggtgtgatct  | cagctcgtctg | 60  |
| aaaactccca | cctcctgggc | tcagggtgatt | ctcctgcctc  | agcctcccaa  | agtagctggg  | 120 |
| gattacaggc | aggtgccacc | atgcctggct  | aatttttgtt  | ttagtanana  | tggggtttca  | 180 |
| ccatgttggc | cagggtggtc | tcaaactcca  | gtgatccacc  | cacctcagcc  | tcccaaagtg  | 240 |
| ctgagattac | aggcatganc | caccacgcct  | ggccccaaaac | tgactcttga  | ccaaagaatc  | 300 |
| tgatttggca | aaccaaatct | tagtgcagtg  | ttcgtctcctc | gtcccccttac | ccagaacatg  | 360 |
| attcagatcc | taacataaac | acaaaaacag  | gtcnnggaac  | caaaacactg  | tggctctgtc  | 420 |
| tattatacaa | aatattgana | taatgttcac  | aantcnttct  | gttttccanc  | aattgtgacn  | 480 |
| attttgaa   |            |             |             |             |             | 488 |

<210> 9982

<211> 547

<212> DNA

<213> Homo sapiens

<400> 9982

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gactattgca | tatcattttt | agttgangtc | aaaattatta  | aagccctatt | tccccaatta | 60  |
| aaagcaagga | nttctattag | tatgtcttct | tcattttatat | cccagattaa | tataaaccca | 120 |

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| gtctagangt | atcacttctt | tccaaactta | acttcatttc  | agcagcatac | atggaatatt  | 180 |
| gacacttttc | aaagttttta | tcccagaccc | attagatcta  | caagatacta | naaagaatta  | 240 |
| gagcaaagt  | agtgggcctg | ggttttagtg | atcctcacia  | acttctcttg | gattcttctt  | 300 |
| ttacaaagtt | tctctaccat | acaaacatac | gttttaaaaag | ccaacactat | tgaggtttagg | 360 |
| tatgcccttc | aggggtgttg | cctaaaatgg | ttaaatccca  | ttcagcttaa | aggaagctaa  | 420 |
| taatcatggt | gtggaatttc | tccataccan | cagcatggct  | aacgtttgtt | nttttaaggt  | 480 |
| tatgttctga | nactccaggt | taantttgnc | ctgacccttn  | aaccttaanc | ccaaatggaa  | 540 |
| aagaaaa    |            |            |             |            |             | 547 |

<210> 9983

<211> 589

<212> DNA

<213> Homo sapiens

<400> 9983

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| aagctaata  | gctatcatta  | gtgttagtgt | actttatgog | tggcctgaga | caattcttat  | 60  |
| tcttccagta | tggcccaggg  | gaagccaaaa | gattggacat | ccctgattta | tgcagtctcc  | 120 |
| anaggaaaa  | ttcctgactc  | acctaataca | cactgaagaa | tatatcaata | caatgggtctt | 180 |
| attaccttaa | aattaacctg  | ttaaattttc | tttccatgtt | ctctaacctt | tcctagtcaa  | 240 |
| actggaaaat | atccaataaa  | attagtgtag | agaaaccata | ctcaattcta | taacgaataa  | 300 |
| tctctcatct | tctcacgaat  | ttcctggaag | taatgagtgt | ggactgaaga | agcagacata  | 360 |
| tagcacacag | actgggtccc  | aagttacaag | cacactgacg | ttatctagct | tcaaaggcat  | 420 |
| actgcctttc | agantctaaa  | acagancgat | gtgcatcata | aganatagcc | tatcagattc  | 480 |
| ctagggccca | aatgttccaa  | aggtcnnttt | cctaaaggca | tgtntatatt | naacnaatat  | 540 |
| aatttgggtt | ctaactctgac | ccccatttaa | tgatcactng | ggaggaant  |             | 589 |

<210> 9984

<211> 591

<212> DNA

<213> Homo sapiens

<400> 9984

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| cttttttttt | tttttttttt | tntntntttt | ttntntttga | aaaaattaat  | ttattttaag | 60  |
| ttaaggatct | ctacgtaaat | ttatttttgt | atcaaacaac | tgcaattagt  | gatgggggga | 120 |
| taaaagcatc | cctaattgtg | gaaggatggt | aatttattta | caaaaaactat | acaaaattag | 180 |
| attaattata | acaacaactt | atcaaagggt | cctgaaatta | attttgcttt  | tgaaaaagta | 240 |
| tcaaaagtct | tcaaatccan | aatgatagca | ttttattatt | tctgattcat  | ggaattatag | 300 |
| cacatcanat | ctttaagcaa | ctacatcana | taaaatccta | nataataaaa  | tattcttcat | 360 |
| ttcctgacag | cttggaatgt | aaatgaaaac | ttgttccatt | tttattaaan  | aaaaaaccta | 420 |
| naataatgca | tccnatggta | tcaaatacct | gttaaaatgg | cgtgtctgct  | ataattaaac | 480 |
| atgggcnatt | aattctacat | aattaaaaat | ggcctaaatt | aatccccctt  | taanaaaaaa | 540 |
| tttttcccca | tcnttccaat | tntttttttt | cccggtttta | antaagaaan  | t          | 591 |

<210> 9985

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9985  
gagcattcac caacaatttc tttattttaat aagtgtatct tatatagaca atctttttaaa 60  
aaataaaatg ccttatttgt gttgcataca tttattccga gggagcctcc ctacaagtca 120  
agagtattct cttagccaga aatacttcta ttgctagaaa cattttttaga acagaacaga 180  
tttttcctgt tatcatggct gcatcaaatg ttaccctgca ttttaactaa aatggccaaa 240  
cattttcaaa gtcacatgac actacaagaa tctaaggcag tgtgtctaaa atgccaaacc 300  
cagtacattt agttaaatat ctgggtcaatt caaaaagcaa aataaattga ttcaattgtt 360  
taatcagtta aaccatctgg ccaacataga gtgaatcctc aaaagggcaa catgtccata 420  
taaaaacgtg tgacangatn gtccaanac accccanggc cacacagaaa aaangccatt 480  
ttatcttcct gaagangtct ggttanaatc cgttttggca aaaattttc 529

<210> 9986  
<211> 479  
<212> DNA  
<213> Homo sapiens

<400> 9986  
ctgagatgga gtgccactct tgttgcccag gctggagtgc aatggcgcca tctcagctca 60  
cttcaacctc tgccctccgg gttcaagcaa ttctcctgcc tcagcctccc gtagctggtg 120  
gattacaggc atgcaccact acgcatggct aattttgtat ttttagtaga nacaggattt 180  
caccatgttg gtcaggctgg tctcgaactc ccaacctcat gtaattcacc cgtctcagcc 240  
tcccaaagtg ctgggattac aggtgtgagc caccgcaccc agccagaatt atcttatgtc 300  
tggttaanaat tgaggacttg ttgaaggctt tgccatattc ttcacactca tagggttcct 360  
cttcagtatg aatgttctta tgtttantaa naattcanga cggtttnnaag ctttgccaca 420  
atcttcncat ttgtaggttc tctcncctat gaattacttt gticcataaa ggttgaaga 479

<210> 9987  
<211> 601  
<212> DNA  
<213> Homo sapiens

<400> 9987  
aagagttttt tcctctttta ttaagtccgc tatactaact agaaagagaa tctgtggttt 60  
tcgcctggta naccacaggg ccaatcacca cagcttcttg tnnagaacat ggagagtgcc 120  
nagatcacca tcaggtgccg ctctcttctt gtggctttcc atcttccagt cagcctggtc 180  
ttttgccttg aagggcccaa aacaacagcc ctgggctatc atcttcatcc caaaagcgga 240  
aaaaataggc angcaaaaac accgaagggt gtctcaaaaa angttcccat caggttcnca 300  
gggogcccg cgtncctctt gganaatntca cttcaatcac cttctgoggc tccttggtct 360  
tctccattac aggtccctt aggcccaaaa cncctgctcc ncaattgcnc ctggtgcttc 420  
tgcaccatca ctctttcttc naagccagca ctgggaatgg cttcactttt ggtggaagaa 480  
ttcatcncnc ggtcccatc ctgggtgagg gcccgatttt taacaggtnt ttcncttaaa 540  
aaaggttaac ttncatcca atttcccccc ttanccctg ttacctcttc cttttgttt 600  
g 601

<210> 9988  
<211> 446  
<212> DNA  
<213> Homo sapiens

09629459.072800

<400> 9988  
ctaaccacac ctttaagttt tattggccat cctcttgata agctgaaaag tcacactagc 60  
ttctgtgtca gcattcttaga tacgtactgt ttctagttaa ttggaatctt ccattttcct 120  
tttttacaaa aatatcctgg caggatctga aactgtttct ccaaagtgtc aaaatatatc 180  
tgtcacacaa aatgaccccc aaagagaatc ctgggaagaa aacaatttct cctcctccat 240  
catccaatta agtattttatt aaacagtcnc tatacttaaa atacctttcc agggtagcac 300  
ctactaagtt aacagactac tggttcaaac accgcaaaga aaagcctgaa actagataga 360  
aacaagaaaa acctcctttt tttttingtn accctttngt ttgtttttac ntgagaaaaa 420  
gaaaacanaa ctgaggnaaa aaaaat 446

<210> 9989  
<211> 559  
<212> DNA  
<213> Homo sapiens

<400> 9989  
aatgtactgt tcttctagaa aattagcaca agatactatg gaacaaacat gttttgacca 60  
atgctgagct aaggagagct cacaatgaaag cctacaaata tgaggaggaa aaacctagcc 120  
acggcacatt tccaacaatt tcttaataat tctcttttcc ttaaccacag aaataaatca 180  
gagcctttta aagttacctt acagatacca gcttctcaga aattattttg cagttatgtg 240  
agagtatgtg ctttcacaat gtcagcacca acatctttag tattttaaga ggaaaagtca 300  
agtccactga aggaatttaa cagatttttc cagaaacact taagacatct ataattaggt 360  
tttaaaagga gtgacagaat gtcttgaatc acaaattaat ctgaattcag gacaataata 420  
actttaactc ttaccactt ttataagcca ttattcccat taatggntga caatctatat 480  
ttccccattt ccatgcccaa atgaactgnn ctccnttctt ttgaagaagn aaaccnnaat 540  
gactccggaa agggtttgn 559

<210> 9990  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 9990  
cagtaaagac ggagtttcac cctattggcc aggctgatct cgaactccc acctcaggtg 60  
atccacctgc ctcggtctcc caaagtgtct ggattacagg cgtgaaccac cgcacctggc 120  
caaatccttg ttttaaccca tatactccat aaaataaacc tgccaagggtg ggactgtcct 180  
ggccccctgt ctctaggtga gganactgag gcaganagga taaggagacct gctgcaggtc 240  
acgcaggtgc tgagcggcag tgctcggta ttagctccat gacccaagct gttgacntct 300  
gccccggctg aantcaccac ttccccaggg ctccctccgc ccagtcggan ctgttctccg 360  
ctcacctcag aatggacggc aaacgtccan ctgttctggg tcttctctc ctgggcctgg 420  
ttacatcaag ggctggttgc angtnacacc cactccatcc anggtttctn caccacnang 480  
gaacccccctg cttgctgccc tggttctccg gccacaaccc tctngtttt ggg 533

<210> 9991  
<211> 495  
<212> DNA  
<213> Homo sapiens

<400> 9991  
cctgccgcat ganattatatt tattaaaaaa ctcaaaggaa gcanagtgtg gagcgggtatc 60  
tgtcctgcgt gacgtctcac atcggagttg gctcanaccc tggctgtgca tccatcaaaa 120  
agtgaaggc ccaggccatg agctggggan gaagcctgac agcttggacc cnancacaga 180  
nggacgtgca ggggtggctca tactcatact ggaaggcaga accatcacga tgcctctttg 240  
ggggttccca gacagaacaa ggctcctggg ctcccctggg atctccggtc ctgggaaaaa 300  
gcgcccgatt cttgcanggc aacccttacc aactcccttg aaactcccan ctaagtttct 360  
tggggcctgg tccccaaaaa acctgttttt gnattggggg acntggcttc cggggttaaa 420  
aaactgggaa tttccctcc tggaattggg aacttggggg ntccggttgg ctttttngn 480  
acctnggggt tcngg 495

<210> 9992  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 9992  
actaaagaca gggttttctcc atgttgggtca agctgggtctc aaactccga ccttaggtga 60  
tccgcccgcc tcggcctccc aaagtgtctg gattacagga atgangcact gcgcctggcc 120  
ccactgacac ctcttgtcaa ggtctccagt gaccactatg ttactgaatg ccaaggccaa 180  
gtcttgggtcc tcaagggatt tgaccagtc agcatcatgt gtcaccgaag cccctctct 240  
gcctcctcct caggaacact ttctgcagtt ggcttctgaa caccagtctc ctgctttccc 300  
cctacottcc tggaaaagtc tttnaagtt tctgctgggtg ctccctcatc tcctccaact 360  
cctaattgctg gaatctcttg ggntcaggct ttggggcccc gctcttctct taanttactt 420  
gcttgggtatc tcaccantc tcataacttn taaacaccat cttttatntn tacaactctc 480  
aaaaaaaaacc taaacttctt ttctgaaatc ccgaatttta ttctccnaa tttaatggn 540  
ctaattggccn cnc 553

<210> 9993  
<211> 399  
<212> DNA  
<213> Homo sapiens

<400> 9993  
aaaagtggct tagaacaac aatttactga gcatttacta tgcacccatc aggtatatctc 60  
cttttataat gtaatcttca aaatgagctg tcaaaactatt ggcccatttt gtgaatgagg 120  
aaaatgaaaa ttaagttata taatcatgag tggcagagct gggaaatgaa ctcaagtctg 180  
tgactctgaa gacatgaaaa agttacacat ttcagatgaa tgcataaaact atctttatgg 240  
gtatgacatg aaaagtaact gtanaatgtt accttaatta catttccnaa tgcattgatgt 300  
ggacagacat tanaaaagtt tggactcctn tggaaaaaca aatccnncag ttaaaaaagt 360  
cctttacttg cnatccccac ccctngctan cccggaacc 399

<210> 9994  
<211> 542  
<212> DNA  
<213> Homo sapiens

009270.69462960



<400> 9994

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| acgtaaacac | aaagtctcat | ttatTTTTgt | ctgaagcgca | caggagctca | ctcagcacaa | 60  |
| taacagtaag | cgaatcatac | aaatattgag | aaaaaatgtt | cctatgaata | catacatgtn | 120 |
| tattcttaag | antagcgatc | aggagtTTaa | caacaaatgt | naagtggttt | tctctaaaga | 180 |
| atgctttctg | acaggctttt | gggttggaaa | tggacaggta | aatcactgtc | acataacagg | 240 |
| tnagctaaga | ataacttctg | ttacccaagt | catttgaacc | ctgtggactg | tgaaagccct | 300 |
| cttggaattt | acatttaatt | ccatcattgg | tctggttgac | ttccacattt | actaaattt  | 360 |
| ggacaagatc | cacaaagtaa | ctcctcaact | ctcagtcttt | cacactcagg | tctgtgggaa | 420 |
| agaaaggcan | tgaaaccagn | tntnaacaca | tgccccgaaa | acaattttan | gatttctaca | 480 |
| gtttcctccg | tttccgcctt | cccaaattct | acctaaactg | ctattnttct | naaatgctac | 540 |
| cn         |            |            |            |            |            | 542 |

<210> 9995

<211> 529

<212> DNA

<213> Homo sapiens

<400> 9995

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggctgaattt | tctctccctt | tattctgaaa | actctacccc  | ctcacatccc | taatccctgt | 60  |
| tctgtccctg | ccacatacac | acacagacgt | ctgacctgca  | cctccaagtt | cccaaanata | 120 |
| ttgtacgtan | aaaaaaciaa | ccttttttta | ttgacattca  | caactcaaac | tgaacactcc | 180 |
| ttgccaccaa | ctgtgtgggt | tttctcccac | actggccaat  | tctccaatac | caactggata | 240 |
| tcatacaatt | caattctggc | attaatcggc | attaagtgca  | natccccanc | aggttaanan | 300 |
| ctcagtccca | taanatctcc | cccaacttca | gacaccagtc  | acaagcagta | ggtnccaaag | 360 |
| ttactcacat | cttctatctg | acgtggctac | aaancaaaaag | ttcccatgat | ttccctctca | 420 |
| gattcaccat | ttgctnnaat | tactcccaaa | atccggaaaan | ggnttattta | ctatccccct | 480 |
| ctattataaa | ataatatact | ccnaaacncc | caatggaggc  | ccggaaaag  |            | 529 |

<210> 9996

<211> 536

<212> DNA

<213> Homo sapiens

<400> 9996

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| gttggtgttt | tggtaggcta | ttaattactg  | cctcaatttc  | agagcttggt | attggtctat | 60  |
| tcagggattc | ggctttttcc | tggttttagtc | ttggtagggg  | gtatgtgtcc | agnaatttat | 120 |
| ccatttcttc | taaattttct | agtttatttg  | catcganttg  | tttatagtat | tctctgatgg | 180 |
| cagtttgtat | ttctgtgggg | tcagtgggtga | tatccccctt  | atcatttttt | attgtgtcta | 240 |
| tttgattctt | ctccctcttc | ttccttatta  | gtctagctaa  | tggtctatct | attcgttaat | 300 |
| tttttcaaaa | aaaaaacagc | tcctggaatt  | cattgatttt  | tttggangna | tttttcacgt | 360 |
| ctctatcacc | atcaattctn | ccctgatctt  | aattattant  | tacttgtttt | aattgctncn | 420 |
| ctgatcttag | ttatccactt | aattagtggg  | ttaatgcngg  | attttttccc | ttgttttttc | 480 |
| nataantttt | aagaattctg | ttttaacccc  | aaattaataaa | aatttttttt | aattta     | 536 |

<210> 9997

<211> 519

<212> DNA

<213> Homo sapiens

<400> 9997

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| agttttttat | ttctgtgtat | acgaagcagt | ctaagaaaga  | atgttatctc | tagagacaaa | 60  |
| tattgaggac | cccagaaaaa | ttataaagat | ttttaaaaaat | cottaggaat | aatccgttgt | 120 |
| aattcatcct | gagaaaaata | tactctttgc | actttaccct  | tcatactcag | catatcatct | 180 |
| gtcctatata | gtcttcaatt | atataataga | aaatgttttc  | taccagttct | ctccaaaagc | 240 |
| tgaaattact | tttttcccn  | ccctcagtta | gtttttcctc  | ttcaactcca | aacaaactgg | 300 |
| tgtctatata | taaatcctag | atccaagatt | ccaattcnag  | aaagaacatc | caggacccca | 360 |
| atttatatat | attctagcta | ccactaattt | ctgtngtgct  | acctgtngca | catgatatga | 420 |
| nanaantcnc | ttggaaattg | acgttggctt | tttggctctc  | ccaactcttt | ccccatattt | 480 |
| tcccctgttg | ttggttcctt | tntaaaagca | tngctgccca  |            |            | 519 |

<210> 9998

<211> 419

<212> DNA

<213> Homo sapiens

<400> 9998

|            |             |             |             |             |            |     |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| gtatttttag | tanagacggg  | atttcaccat  | gttggccatg  | gtctcgaact  | cctgacctcg | 60  |
| tgatctgccc | acctcggcct  | cccaaagtgc  | tgggactata  | ggtgtgagcc  | accacgcccc | 120 |
| gccaatatat | ttttacctac  | atcattttac  | ccactgtaga  | aaatgcatca  | gaaagggctc | 180 |
| cnaacattat | gatatgggtca | atcttactct  | catggantan  | taacctaaagg | aaanantaaa | 240 |
| cttccngctg | acttaagtat  | ttgtgtctgt  | acctaaagttc | actaatgggt  | tatgctttca | 300 |
| tgantactag | ttttaatatt  | tatctatgca  | acttgtgttc  | tgtctgaaan  | aaaaatacac | 360 |
| ttgtttcctg | anggcncact  | gcnaggaaaac | ataccagtna  | tgatagacaa  | ancangaat  | 419 |

<210> 9999

<211> 545

<212> DNA

<213> Homo sapiens

<400> 9999

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| gagacggant  | cttgctgtta  | ccangctgga | ntgtggtggc | acaatcttgg | ctcactgcaa  | 60  |
| cctgcccctc  | cttgcttcaa  | gcaattccct | gcctcagcct | cgggggtant | tggtgattata | 120 |
| agcaccgca   | accatgcctg  | gctaattttt | gtatttttag | taaanacggg | gtttcaccat  | 180 |
| gttggccagg  | ctggctctga  | actcctgttc | ttgtgatcta | ccgcctcag  | cctcccaaag  | 240 |
| tgctggggatt | acagggtgtga | gccactgcac | ccagtcaaaa | attttttagt | gtagattttg  | 300 |
| caacaacatt  | ttttttttta  | atgcatgtgc | atcagtaact | tttatgtata | cagttttcaa  | 360 |
| atatttcatt  | gtttctcanc  | atacttcaac | tcattaaatc | tttcccantc | ttcccctggg  | 420 |
| catgcataca  | tgtcaacatc  | agttcaattt | cctgtccang | gtacacaatn | aaccctgtnt  | 480 |
| ttgggaacct  | ttgaaccggt  | cntaacttac | aangggcaac | ncctgttaaa | aggtganaca  | 540 |
| aaaaa       |             |            |            |            |             | 545 |

<210> 10000

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10000

|            |            |             |            |             |            |            |     |
|------------|------------|-------------|------------|-------------|------------|------------|-----|
| gttttgc    | an         | ctccatccat  | gttccgtcca | cagacatott  | gttctttttt | atggctgcat | 60  |
| agtatttcat | ggtgtataag | tgccacattt  | tctttatcca | atctgtcatt  | gataggcatt |            | 120 |
| taggttaatt | ccatgtcttt | gcaattgtga  | atagtgttgc | aatgaacatt  | cacatgcatg |            | 180 |
| tgtctttatg | gtanaaacac | cgtaagggtca | atttatattc | ctctgggtat  | atatccagta |            | 240 |
| atagaattgt | tgantcaact | ggtagttctg  | cttttagctc | tttgagggaat | caccatactg |            | 300 |
| cttttcacaa | tagttggaca | aatgtctact  | cctactaaca | gtgtataagt  | gttccctttt |            | 360 |
| ctccacaacc | tcaccancat | ctgttgtttt  | ttgacttttt | aataatggnc  | attcanactg |            | 420 |
| gtatgaaatg | gtatctcatt | gtggtttttga | attgcatttc | tottatgaaa  | aatganattg |            | 480 |
| anctcttttc | caatgctggt | tgaacacata  | tatttcttgt | tttgaaaaat  | tcgttcagtc |            | 540 |
| cnn        |            |             |            |             |            |            | 543 |

<210> 10001

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10001

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| ctanagtttt  | tttaatggtg | ctgacattct | cttcaatatg  | tccatgotta  | gcttgggttt  | 60  |
| ctgggggaca  | gatgagtagc | tagtactacc | catctaaaaac | acaatgttca  | ttagttaggaa | 120 |
| taatggtgtg  | atatgatagt | cttcaanatg | atgccctcaa  | tttctttcct  | ccctgcatgc  | 180 |
| acatgctgct  | gtttacattg | acaggtagag | tcgaatctcc  | catttcttga  | atctgtgctg  | 240 |
| gtcacaatga  | cttgcttttc | cnataggatg | gagcagaaat  | cgtactctag  | gacctccaag  | 300 |
| gctaggctcct | aagaancctt | gtagtatttg | cngtgtgtgc  | ttgggananaa | ctaccacctt  | 360 |
| gtgancactc  | cangtnacat | tgaaaagtcc | ganaag      |             |             | 396 |

<210> 10002

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10002

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| ggtgtttcgg  | tcttgttgcc | caggctggag  | tgcaatggca  | cgatctcggc  | tcaccgtaac | 60  |
| ctccgcctcc  | tgggttcaag | caattctccc  | tgccctcagcc | tcccaagtag  | ctgggattac | 120 |
| aggcacctac  | caccatgccc | ggctaatttt  | tgtatttttt  | agtaaaaaaca | gggttttgtc | 180 |
| atgtttgtca  | ggttggcctc | taactcctgg  | cctcagggtga | tacgcctatc  | tcgacctccc | 240 |
| aaagcaactg  | gattacaggc | atgagccacc  | acatccggcc  | agcattttta  | cagataatag | 300 |
| ancacattct  | ccattgaact | cttcanaaaa  | atgtncctgga | ctctgcaaac  | caatgactga | 360 |
| aatgccatgc  | tgctcctctt | ttaattttga  | aagatcttct  | tcattcattat | ctccttcccc | 420 |
| aagtttttnan | tgtgtttaat | ggaaatttggc | tttgttggaa  | ttgccccccc  | ccgaagccnc | 480 |
| cnccccaaaa  | aataagttcc | gccccaaaaan | ctttcaaaaa  | antttttttc  | cncant     | 536 |

<210> 10003

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10003

09629469.072800

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| aagttgacaa | ttaagcagac  | tttatatcag | catctaactt  | ttttaaaaaa | aaggcaagtt | 60  |
| acaatatagg | aatttttagag | aattgatgca | tttgagaaaa  | gatgaagcag | atagatatat | 120 |
| aattgttcac | agtggtaaat  | tataggtggt | tttctcacat  | tttatgtcag | tttcttgtat | 180 |
| atcaaaaaat | acattcatac  | tatgagacac | aggaatcttt  | acatccaaaa | taatttgata | 240 |
| cagatgcctt | aacattgctg  | aatgagacaa | ctttggaaaag | attcttgttt | tgtgattcct | 300 |
| ttttaccctc | taagcacagt  | gctttgttaa | cactgtgtgt  | gtagtaaagt | tgtgtgctgc | 360 |
| ttaaggtaaa | gaattctagt  | aaactaaatg | cccaagggtga | ctgcgtgatt | ccatgccaga | 420 |
| caggaaaaag | cagtcatgct  | ttttgnccct | anctgaacgt  | ttgtttcccc | ncaaactatg | 480 |
| ttttcntccn | cagaaatatg  | aaatatgcta | natccagttc  | na         |            | 522 |

<210> 10004

<211> 510

<212> DNA

<213> Homo sapiens

<400> 10004

|            |            |             |            |              |            |     |
|------------|------------|-------------|------------|--------------|------------|-----|
| gagatggagt | ctagctctgt | cgcccaggct  | ggantgoagt | ggcgccatct   | tggctcactg | 60  |
| caagctccgc | ctcccgggtt | catgccattc  | tcctgcctca | gcctcccgag   | tagctgggac | 120 |
| tacaggcgcc | cgccaccacg | cccagctaata | tttttgtatt | tttagtaaan   | acgggggttc | 180 |
| actgtgttag | ccaggatggt | ctcgatctcc  | tgaccttggt | atcctcccg    | cttggcctcc | 240 |
| caaagtactg | ggaatacagg | catganccac  | cgcgcccggc | caagtatatata | catattttta | 300 |
| ttcataatgt | ggacagggtg | gtcnacagag  | aaaacagact | tatacatgaa   | agatgaatta | 360 |
| atgaatgaga | ttaaaattgt | tttataattt  | ttacatttaa | atccttgaaa   | attaaaaagt | 420 |
| nagaaatatn | atagcttaaa | tatcntatcn  | ttaaaaatta | acttgccotta  | tttaaatata | 480 |
| atganaaatn | tttccgtatt | ttttgtttta  |            |              |            | 510 |

<210> 10005

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10005

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| acaaagtctt | aatacgaact  | gtttaattgt  | tataacaaga  | tttgagangc  | aggggtangt  | 60  |
| aagtaagtca | ccaactggcg  | ataagtcacc  | aactgttaat  | atgtgtctgc  | aagtttcttg  | 120 |
| tttttcacaa | tcactagatt  | tacatacaat  | tatagggttaa | ggttctccgt  | gtacacatac  | 180 |
| agtgaagac  | attttccaaa  | taccttttga  | tgtagaatgg  | aacctgagac  | aaaaaaatca  | 240 |
| cttaagaaat | caaattctcat | ataatggaaa  | tactttaacc  | acagcattca  | cacatttgac  | 300 |
| tgtggattcc | aaatgcttat  | ctaaacagag  | gcaacgcaat  | taaaactgcct | tactcaaaa   | 360 |
| tggtgtcaga | aggcaactac  | cctattttact | anccactgat  | aagttatgac  | aacactattt  | 420 |
| cataacctgt | cctatatctc  | ttttaacccc  | ccagccatta  | ggattangat  | tccccacccc  | 480 |
| taagggntta | tccccaatgc  | cttantgccc  | caaccnttaa  | aaatccaaat  | tgcattgccnc | 540 |
| ttgaaaaact |             |             |             |             |             | 550 |

<210> 10006

<211> 231

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 10006

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| agagttgaaa | tatattcttt | atcttcagga | tggaaatagg | atagggaagg  | aggaaagata | 60  |
| cctttgttag | ttgccactgc | agtaccatcg | aaagaacatc | ctgggggaaac | aaagaggtat | 120 |
| gtgtgctaca | ggaggggttg | gtgactagag | acttaggtcc | cggaggcctg  | gacaccaggg | 180 |
| tcaaaaaggt | gtacagggcc | cagactcctg | gttctgaggg | aggannnnnn  | n          | 231 |

<210> 10007

<211> 487

<212> DNA

<213> Homo sapiens

<400> 10007

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gtttgtatat | ttacttgttt | attgcccatg | cctcccccca | gcaagaatgt  | aacctccaag | 60  |
| aggacaagtg | ttgtgtctcg | cttactcaca | tctgtggcct | cagtgccttg  | cattgccacc | 120 |
| cccacgcacc | ccaccgcccc | cagagtgcgc | caaanagagt | gcaaaaataaa | tatttgtaa  | 180 |
| atgaatgatg | aagggaatgg | tggangaggc | tgtctgggcc | ctttatggaa  | ttacttcagc | 240 |
| tcagttatgt | ctatttcttt | tttttaatcc | tcctctctct | gcccgtcagc  | ttcattcat  | 300 |
| tccccacctc | ccatctccag | ggaaggggtg | aaaggatgga | gacagactga  | cgggttgcc  | 360 |
| ggctgangct | tgtttttagg | tgtggagcaa | ccccanccc  | aactgaactg  | tctgggcttc | 420 |
| cgggaaggaa | gaaaaaccnn | tccgtcccaa | aaccncaaaa | attanttggt  | gggttcnaaa | 480 |
| aaggcct    |            |            |            |             |            | 487 |

<210> 10008

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10008

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aattttcttt | acaatattta | tttgaaaatt  | ccaacagtac | agattgtata | taaagactct | 60  |
| aattgagatt | cttgtttcat | tgacaaaattg | ttaaaattct | taactgccag | tggtggtagc | 120 |
| tcacacttgt | aattccagca | ctttgggacg  | ctgaggctgg | cggattgctt | gaatcccga  | 180 |
| gttcaaaacc | agactggaca | acatggtaaa  | accccatctc | tcattgtaa  | ccaattccaa | 240 |
| tttcatcacc | atttcagaaa | gatgacgatt  | ttctaatttg | agtactcca  | gctgatccaa | 300 |
| aatctcctta | tgctctactg | ctttgtcttc  | tgcccttttg | atctctgctc | tgaagtcctt | 360 |
| tccgtgtctg | angaaagaac | ctttggtgga  | agcaatagtg | atatctcgct | gatgttactc | 420 |
| ctgagttaga | tgggaaattc | catcttcatt  | ccttctantg | canaactgtt | actttgttct | 480 |
| cccgttaa   | atcttcttcc | acttcttaac  | cctgccttgt | ntccctggta | ttctctcccc | 540 |
| ccc        |            |             |            |            |            | 543 |

<210> 10009

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10009

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gcgttttcat | actctttatt | gccaacggtt | taaaatggtc | aacataaaaa  | aaaagacatt | 60  |
| ttgataataa | atactgctct | ttgggctgta | ataaataaaa | agttttattaa | caaggaatgc | 120 |
| acttttccag | ccacaagtat | cttcaaaaa  | taatgaaaaa | aaattatata  | tggccatagt | 180 |

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| tcacagttac | gcagccaaaa | gctgctccaa | ttacagcctt | taaacaacat  | gggancttcc | 240 |
| tcccttctcc | ctcccccttc | ggaagtatat | tcacagttcc | aaagtcctct  | ggctgaaatg | 300 |
| ctctcaccag | aaaaaaattt | agaaatcant | gncctttct  | gcaaaaattgt | ctgaaaaaac | 360 |
| cttttaaaac | aggtttctca | aggaaaaact | gcattctggg | ccctcttgga  | ttgtccaaan | 420 |
| tcaaaaatgt | ntgccttaac | ctgttctggg | tccaccantc | caacaggccc  | angggaaatg | 480 |
| ttttcgtacc | acacattttt | ctcttctcca | aatactctna | ttatcctttg  | ggtcccggt  | 538 |

<210> 10010

<211> 483

<212> DNA

<213> Homo sapiens

<400> 10010

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| gtttctctaa | aatttagaat  | cttaaaactaa | atccttttatt | tcaaaaacaa | acataaaata | 60  |
| atttcccagg | canaaaaaaaa | gnttganang  | gaaacgttct  | tgtagcagt  | cccttcctgc | 120 |
| ataaatgggg | ttggagaaaa  | aagaaaaaag  | gaatggccaa  | aggtatggaa | agctttcaca | 180 |
| atgcatgccg | agtgtgaant  | gaacccccag  | canatggggg  | ttatcatctt | tacttagtca | 240 |
| cacaacatca | angactgggt  | agttccaggg  | gaanggtcc   | atttcattac | ctgggtcagt | 300 |
| tctcttcccc | cgcattgctc  | acaatgcagt  | anaacaaaca  | acacattcat | ttacaatana | 360 |
| atgtttaaat | aacacctgtc  | caataactgc  | ccttacttct  | ttgtgctgtc | cggaaaagaa | 420 |
| aaaacnnaaa | gccattaaac  | cccnaccctt  | tggccanccc  | acccgtnnct | attctcctgg | 480 |
| ggn        |             |             |             |            |            | 483 |

<210> 10011

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10011

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| atagagagcc  | gaaatatttt | attttgatta | aatacataat | agttatggtc | ttggtattgc | 60  |
| aaataacatg  | tcttggaat  | gtttagatgt | ngagggagaa | ataaacaag  | tcacaaggtc | 120 |
| gaggctttta  | cataccactc | taagaaataa | gtacacatag | ccaaaaacaa | catactatta | 180 |
| cagtattata  | cagtattctg | acacagctag | gtttcagaaa | tcattatact | tgacaaaaag | 240 |
| gataatttac  | attcttttta | aaatcccatg | taacaattac | aaaaatctct | ttagtaacaa | 300 |
| agaaaatctc  | tagaaattct | caaaagtagt | cttttaatgc | atggcatttt | ctgaacacaa | 360 |
| taaaacacta  | gttgatagaa | aaaagacaga | aaaaggaatn | taacaagcct | cctaatttga | 420 |
| aataagcact  | tttctacatt | actccgattn | aaganaaaac | cccaacntac | caaattttta | 480 |
| gaanaatatt  | tcttntttta | ctttccaaaa | aacttntttt | ccaattncca | ccattatatt | 540 |
| tgggtggatac | ttaattnctt | taccncccn  |            |            |            | 569 |

<210> 10012

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10012

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| atgatagcac | aaagtagttt | ttaataaaaat | ctgctttttta | cttatatttta | aataaattgc | 60  |
| ccagttactg | aatcagaagc | atttctttaca | aagcaaacaa  | aataagcatc  | ccttctatgt | 120 |

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| taataacatg | ttaatagtat | gttggcaagt | tgatttanaa  | caacttgcca  | acaatacaaa | 180 |
| cagaaaaagg | agtgggtcaa | agaaatctag | tttggcttta  | ttttcaatag  | atcatactgt | 240 |
| ctgttgaaaa | aggaataaat | aattatggag | cctatctaata | aatataactcn | atagtttgaa | 300 |
| attattgagt | gcttcctata | taatangctc | caggctaagt  | atttcatttg  | cattctataa | 360 |
| ttatgtttat | attaacatga | aggaaacaga | anttaagtac  | taagttctta  | gcatgcagat | 420 |
| aacttatatc | tatttatgac | aaactttgtc | cctacacatg  | tggctganta  | atttcatatc | 480 |
| tctgggtcnt | aagaatcttt | gaacataatg | gacttaattc  | ontaaccctt  | aactggcncc | 540 |
| gntatatctg | ttcaattcna | aatg       |             |             |            | 565 |

<210> 10013

<211> 589

<212> DNA

<213> Homo sapiens

<400> 10013

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| gaaaaacata | natttttttt | ttcctccaga | ntagtagcta  | attttgtttt  | ttttttgaca  | 60  |
| gtctcactct | gttgcccana | caggantgca | gtgggtgcaat | cttggccccac | tgcaacctcc  | 120 |
| acctcctggg | ttcaggtgat | tctcctccat | cagcctccca  | agtatctggg  | attacaggtg  | 180 |
| ccgccatca  | ctcctggcta | atttttctat | tttagtaaaa  | atgggttttt  | gtcatgttgg  | 240 |
| ccacgctgg  | ttcaaaccct | tgacctcang | tgattctctg  | gcctcagcct  | cccaaagtcc  | 300 |
| aggggattac | aggtgtgagc | caccacacct | ggcttctttt  | aactctgcaa  | agggggccnng | 360 |
| tctggcatac | agtttgaaat | ttgctgccac | aatcccat    | tgcnaacccc  | aaattcctng  | 420 |
| tggaaaaaag | gggggtnttc | catnggccca | ctaaccatt   | gggnaatta   | aactcctttg  | 480 |
| ctccccaac  | tgtttgccan | aaaaccttaa | aaggaaggcc  | cncctattnt  | ggaacaaaat  | 540 |
| tntttttccc | ctttttanta | aaaaanataa | ccctttttta  | aaaaatcttn  |             | 589 |

<210> 10014

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10014

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ctgtgtttga | ttggttttat | tttatactca | gctttat    | atatcacaaa  | actgtaattc | 60  |
| aggtataagg | ttatttcaca | ctttaagggc | attctgtctc | tttctccaga  | cctgaaanag | 120 |
| atgtttcaag | gatcattcac | ctggctaata | cacaatatat | caaaatgctg  | acagacctac | 180 |
| aaaatcatta | tgccaaacaa | actcctccaa | gtcgtacatt | gcacagtctc  | caactgttaa | 240 |
| acaaattagc | caatttatct | ctgaaccatt | gttttgtgct | ttccttagct  | ttcatatata | 300 |
| cactctggca | ctttgtcatt | gctgggagaa | tgctgattag | tttgaaatgg  | aanaaaccaa | 360 |
| cgccattctt | gcttganatg | ggggcagttt | tctctcaatg | ttgcaaaaata | tgcccaaatc | 420 |
| atttaagana | cagaaatctc | tcttggtaat | ggtggattat | nnaatganaat | gaaaaaaaac | 480 |
| cccnacttnt | ggatgtttta | ataatctatt | tganacctaa | aaaaatgggtg | ccaanccaca | 540 |
| t          |            |            |            |             |            | 541 |

<210> 10015

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10015

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gcattttttt  | tattgccacc  | agtgtagtcc  | caacctccat | cctctctcac | ctggatcaca | 60  |
| gtaagcctct  | gcccctgcca  | atccattctc  | cacaaagcag | agtgatctct | aggaaagcaa | 120 |
| ctcaggttgt  | gtcccactct  | taggtaaaaac | cctccaacag | tttctcatgc | ctcagaatga | 180 |
| aatctaattct | ccttatccctg | gactctaaca  | accccctoga | tttagccctt | acctgcccta | 240 |
| tctcttgac   | tctttccttg  | ctcactcaat  | ttcagccact | ggtgtccttc | catgctttca | 300 |
| ttcattcctc  | ctcaggcctt  | tgagcatgtt  | attccttctg | ctttacacag | cctctctctg | 360 |
| ntctttgcct  | ggttatctcc  | tacttgtctg  | gttctctgtg | tgtaactttt | cccacacagg | 420 |
| tcttctctga  | cttcctaata  | ctaaattagg  | atcataagtc | tcagtttctt | catttctgaa | 480 |
| ataagggtatt | ctgcggatta  | aatgagaacn  | ttcatgtnaa | ggttggtggc | caagtactng | 540 |
| cccacagtgn  | ggaccttan   |             |            |            |            | 559 |

<210> 10016

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10016

|             |            |             |            |            |             |     |
|-------------|------------|-------------|------------|------------|-------------|-----|
| agagtaaaaa  | aggagtttat | atattttataa | atgccaaata | aataccagag | gccacccaac  | 60  |
| gccccctccc  | agacagggct | gtctccccc   | gccctaggct | tctagggtgt | gagacatctt  | 120 |
| ggccccaaagc | tatagcccaa | gagcagctgt  | cagtctgtgc | taccagggaa | ctgagtgagg  | 180 |
| atgatctgtc  | cagccaagtt | tacttcccc   | tgagttaggg | gcccccatag | ccacaggcct  | 240 |
| gggtccctgt  | ataggacctt | aagggtgaaa  | gactcagggg | gagaagggtg | ccatctcgag  | 300 |
| tgagaccgc   | tgccacagct | ccttggtctg  | tttgctgcgc | ttgaggttct | gtaggatgtc  | 360 |
| gttgaactgc  | atcatgcccc | tgggcgtcag  | gcagaaggcg | ctgcgggcac | tccgatcgc   | 420 |
| attcaciaaag | tcgtcgtagt | cgcangagt   | cangtgaatc | aagctgtggt | ggatgtactg  | 480 |
| catgtatgcc  | tgctggcaac | gcttgaccan  | ttggtggaag | gnccgggcac | ncagggtgggt | 540 |
| gtgggcctna  | accggactaa | c           |            |            |             | 561 |

<210> 10017

<211> 524

<212> DNA

<213> Homo sapiens

<400> 10017

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| ggcaggtttc  | cttttattgg  | ttctagacag | tttgtggaag  | gaagagatga | ggccatntan  | 60  |
| aggccggcag  | gtctgcccag  | tgcccaaac  | actgccacco  | tgaagtagtg | ttggaagctg  | 120 |
| ctccagggat  | gttgacagccc | taagcacagt | gacagggtgg  | ggcaggagca | gcagggggtcc | 180 |
| ccgagggtgt  | ganaggctgg  | tgagggcaca | gagaaggggac | ctcctggggc | tgaggccctt  | 240 |
| ggtggcccta  | tgtgttgag   | cacgctggcg | cttgtctgtc  | cggcctccag | tcacgccaa   | 300 |
| gcctcctgcc  | ctgaccacca  | gcaatgctgg | cctcaatgtg  | gctgaagotg | gacgtgtgac  | 360 |
| tttgaccccg  | tgagggggtc  | ctgggaagg  | ctcanttgct  | gcggttgctt | gtcgtcactg  | 420 |
| tccagggtatg | caccagttg   | gctcanggan | ggacccccca  | ngcggttang | gtttanggtc  | 480 |
| ggctccttc   | ctggtctggg  | gggtctctgg | ggtngggggc  | ccct       |             | 524 |

<210> 10018

<211> 553

<212> DNA

00629469.072800



<213> Homo sapiens

<400> 10018

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aatgctttta | aaactgtatt | tgtacaacag  | gataaaaaca | gtttttcttt | cggatgccag | 60  |
| ttgcaagttt | ccatgtaacg | tatcttaatc  | tacattccca | aagtaattgt | gtctcaggta | 120 |
| acctttgccc | tgcccaaaag | atgaacaaaa  | ataaccagaa | aggtaaaaat | ctgtcttttg | 180 |
| agttggggga | atcactggcc | acttgcaaac  | tgccacttca | ctgccaactt | ttatccaaga | 240 |
| aaaccggttt | ctaaaaacct | gcaaaaaggga | catttaagag | gaagctgttc | cctgaacgaa | 300 |
| gactgagcag | gacaagccaa | aagcgggtgcc | aggggacaat | gccagatggg | gaaagtagga | 360 |
| gccgggttgt | gagacggaaa | cacacacgcc  | aagaacagcc | aggagcaaaa | gcgaggagtt | 420 |
| ctggcttctc | gtaactcatg | aaggatgaat  | gtcatcgggt | taaatttaga | cgataaagct | 480 |
| gatgatgacg | gccccggggg | ccgnttttgg  | aaccncntta | nttccagtnc | ncnagaaaag | 540 |
| aaaatnttgg | agg        |             |            |            |            | 553 |

<210> 10019

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10019

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gagatggagt  | ctcaccctgt  | tgcccaggct  | ggagtgcagt | ggtgcatct  | cagctcattg | 60  |
| caacctccgc  | ctcctgggtt  | caagagattc  | tcttgactca | gtctcccaaa | tagctgggat | 120 |
| tacaggcacc  | caccaccatg  | cccagccaac  | ttttcatatt | tttagtagag | atggggtttc | 180 |
| accgtgttgg  | ccaggctgggt | ctcgaaactcc | tgacctcaac | tgatctgccc | gcctcagcct | 240 |
| cccaaagtgc  | tgggattaca  | ggcatgagcc  | accgcaccca | gccttcaagt | atTTTTTctc | 300 |
| ccctccccct  | acaatcgccc  | cctcttcagg  | gactctactt | acatgtatat | tgggctgttg | 360 |
| gaagctatct  | tgcagctcac  | tgactgatgt  | tcttttaaaa | agaattcttt | TTTTTctct  | 420 |
| gngtttctact | caggatagtt  | tctattgaga  | cttctctgag | ttcactatta | ctttataaca | 480 |
| tttaatctac  | ccttgatctc  | atcctgggna  | tccgcatntt | aaaacactgg | gggtttcatc | 540 |
| actgggaagt  | ttgaatttg   |             |            |            |            | 559 |

<210> 10020

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10020

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aaacaagtga | acagttttat | taagaattaa | atgagggtat  | ggaatgtgat | acagtacaag | 60  |
| taagacactg | aagatgggta | taatagtact | acttgcacaa  | aaagttaa   | ttcacttcaa | 120 |
| aaaaaaaaat | cacaagacaa | aagaaaaagc | aattccatca  | ttataaagta | agctatttca | 180 |
| tgcaacgtac | taatactccc | cctcccccca | aaaccccaac  | ttcccaacaa | acaaaaagct | 240 |
| atctgaaaat | gctgccatgc | taacatatga | accacgggtat | attcattcat | ggaaaaacac | 300 |
| actcattaag | caatggatta | gataaaataa | cacagtttgc  | agtattgtaa | actcatagac | 360 |
| cacaatgatt | tcacatgaaa | agcaattcca | gattcactca  | tagggtgagt | aatatgggct | 420 |
| acatagttga | gagataatgt | aaatataaac | cccattaatt  | ctctcattat | cttctaatta | 480 |
| tnaaacctgg | aagcttagat | aatctggaaa | attcatataa  | aattngnata | cttcacttgg | 540 |
| gntccaagaa | atgactttcg | gt         |             |            |            | 562 |

009240.69462960

<210> 10021  
<211> 514  
<212> DNA  
<213> Homo sapiens

<400> 10021  
ganacggaat tgngctgttg ttactccggc tggagtgcag nggcgtgato ttggctcacc 60  
acaacctccg cctcccgggt tcaagcgatt ctccctgcctc agcctccga gtagctggga 120  
ttacaggcgt ccaccaccac gcctgggtaa ttttgtattt ttaatanana tggggtttca 180  
ccatgtttgg caggatggtc tcgatctcct gacctcgtga tctacctgcc tcagcctccc 240  
aaagngctgg gatgacaggg gtgagccacc acaccgggac tgctggattt tttcttatat 300  
cagcttaaac aaactaagat gattattccc acagaggaat cgtttttatc ctttaaggcgg 360  
ggttaggagg aattcacaag agagacctgc tgatggacag acagtacatt gcgtgtcgac 420  
aggagtccac accaatgcc cctgcaaato aanngcctga cattcccatg ggggcncaan 480  
aaaaaggntn aatagatcgg tttcctttnt atgc 514

<210> 10022  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10022  
agtagagacg gggtttcacc atgttagcca ggatgggtctc gatctcctga cctcatgato 60  
tgcctacctc cgccctccaa agtgctggga ttacaggcgt gagccaccgt gccagccag 120  
caaaacaatt ttctacacaa atgtccttat gaaatgcoat gaaccccaag tacacttggg 180  
cagaatgaac ctattacttc attttcccca cagccaatca cccttcccca tgccttagac 240  
catcccactt ccctcagcca taaatatccc taaggcttat cttgaggagg tggatttaat 300  
ataagttgcc aggaccagca gacctgaaa ctccccaccc ctgcccttcc tatattctgc 360  
ttaaaatttg gtggatgaac ctcatctcc ctttaattgc agaacagaaa tgtgtgacac 420  
tccctgagtg tcaatgaatg cctgatccct gcctaactca ggaaattctt ggcattcttn 480  
caagtgctc ccctaaaaat ggngctccgg ggaatgatct tacagaactt aaggctttac 540  
catttatggg atcna 556

<210> 10023  
<211> 555  
<212> DNA  
<213> Homo sapiens

<400> 10023  
gtagcctcgc tctgtcacca ggctggagtg ctgtggcacg atctcagctc actgcaacct 60  
ccgcctcctg ggttcaagca attctcctgc ctacgcctcc caagtagctg ggactacagg 120  
cacgtaccac catgcccagg taatttttgt attttttagta cagacgggtt tcaccacgtt 180  
ggccaggatg gtcttgatct cttgaccttg tgatctgcog gtctcgccct cccaaagtgc 240  
tgggattaca ggctgtagcc accgcacctg gcctgggcct gccctattaa acagacttat 300  
taccataatc aggaccatgt ggttttagca cagagaacaa ctaacggata cctatgcaca 360  
cagggaaact atgatgacag acagatactg cagagtaaata tattatttaa taaactttgc 420  
tgggataatg ggtgtccata aggaaagaac tgaaaacgga cccactgggt actcaatacc 480  
caaactcaat tagaaaangg gattaaaaag nttnaaaga acacnttttt tttttttttt 540

09629469.072300

ttccttgana naggg

555

<210> 10024

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10024

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ctttctttct | tctttttttt | ttttttttta | nacggagtct | cattctgttg  | ctcgggctgg | 60  |
| agtgcagtgg | tgtgatcttg | gctcactgca | acctccgccc | cccggttca   | agcgattctc | 120 |
| ctacttcagc | ctccccagct | gagattacaa | gtgcacacca | ccacacctg   | ctaatttttg | 180 |
| tatttttagt | agagatggag | ttttgccatg | ttggccaggc | tggctctggaa | ctcctaacct | 240 |
| caagtgatct | gcccgcctcc | gcctcccaaa | gtgctgggat | tacaggcatg  | agccactgtg | 300 |
| cctggccccc | aaatatactt | ttcttatgct | ctattgatgt | cagaggttct  | aagatatcac | 360 |
| caaatacctt | atttgaatat | ttaagctcta | acttgatcat | cctctgtccc  | tttagttaag | 420 |
| agttggggct | gaaggcagcc | tgncctttct | ttcccactgg | gggatataag  | ncattttcaa | 480 |
| ccttttcctg | nttcaatact | tggctactgg | ggngacattc | ttttaaaatt  | tcatggcatc | 540 |
| tnnttnaaaa | agncccta   |            |            |             |            | 558 |

<210> 10025

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10025

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aatacagacg | aggtctccct | ctgttgccca  | ggttggtctc | caactcctgc | ctccatcctc | 60  |
| tggcctcagc | ctcccaaaga | gttgggatta  | cacaaaacaa | aacaaagcaa | aacaaaacca | 120 |
| ggccacacag | tgttgggtta | caggcttgag  | ccactgcgcc | tggccatgaa | tcctttatca | 180 |
| caccccaggg | gcctcaggta | ccaatcacag  | ggcccattgt | ctccatcttg | ggaaagtaac | 240 |
| attcatccat | agccagtaaa | aagcaggggt  | ttggctgcgt | gcctcaggcc | catcacaggg | 300 |
| gatgctgagg | ggggcccagc | gctctgocca  | cactgcctgc | cattgaaccc | ccactctcag | 360 |
| aagctacgat | gtgagagagg | tgtgttttaga | attgaggaaa | gaagccaccc | ttgtcaaaga | 420 |
| tccctccaca | ggcccaagag | aaagtgaana  | gaccattttt | acgcccgtct | tgctgacttt | 480 |
| tttgatcttt | tataaaacaa | gccacacctt  | tccttaagna | gggaagtnc  | aagggaattt | 540 |
| caaacaagnt | tggtngggc  |             |            |            |            | 559 |

<210> 10026

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10026

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ccgaagagtg | gtgaggaggg | caggacaatt | tctagaggca | ggggaatctg  | aaagtttcat | 60  |
| gccaggggaa | tggagctcag | tttatcttcg | aagcccttct | cccatccca   | ggggggcccc | 120 |
| ttaccacagc | ctgcattatt | gaacatgccg | ggaagcacca | gcatgatgtg  | gttgggccag | 180 |
| tacttgcggt | acagaggcat | ctcatactct | ttgaccacca | ggaggatgaag | gtggctgatg | 240 |
| ccctccatgg | cgtggaaaag | gtttaggagt | ccgtgctcat | gtcgaccact  | ggaaggagtg | 300 |
| aaaatagggc | tcttgactgc | attcaaattc | ttgtctgaaa | ccaggggcag  | ccgcatgctc | 360 |

09629469.072300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tccaggtgct | tgccctgctt | gctgaagaca | aatgactct  | ctttggattt | gggaatgatg | 420 |
| aaatatagct | gaacctcttc | tcccagcata | gaagaagaga | atgtgaangc | atgaanggtg | 480 |
| gagtcagaca | tntggaagca | naagtgaat  | ccatgtactg | gcggacttgt | tacaannggt | 540 |
| gaaanggggt |            |            |            |            |            | 550 |

<210> 10027

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10027

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gagacggatt | ctcgctctgt  | tgccaggctg | gagtgacgtg | gcatgatctt | ggcggctcac | 60  |
| tgcaacctct | gcctcctggg  | ctcaagtgat | tcctctgcct | cagcctcctg | agtagctggg | 120 |
| actacaggtg | cacgccacca  | caccagcta  | atttttgtat | ttgtagtaaa | gacgggggtt | 180 |
| caccgtgttg | gccagcatgg  | ttttgatctc | ttgacctgt  | gatctacccg | ccttgacctc | 240 |
| ccaaagtac  | ggaattacag  | gcgtgagcca | ccgcgcctgg | ccganagtgt | gattttaaaa | 300 |
| tacaaaccaa | ccagtcctggg | gtctgtactg | ccaaccacct | gccttattgg | gctcttgcac | 360 |
| tccaagccac | tatctttctg  | ccctaatac  | ccaaggcca  | ggtgtcaggc | cgntaggcag | 420 |
| cctntatgcc | ccagagccca  | caaatgctt  | catatctgnc | catctgaanc | tgnttggtg  | 480 |
| gccttgccct | tttttcccat  | ccaancccta | ttaaaagctt | tngnccaaag | tccctcatga | 540 |
| atatt      |             |            |            |            |            | 545 |

<210> 10028

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10028

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| cttttttttt | tttttttttt | ttacaggaaa  | gccatttact  | cctgggtgaat | tcctcagggt | 60  |
| cccaggttca | acactttccg | tgatgtcaga  | gtactcagtc  | agggatgatg  | gggacagggt | 120 |
| gtcagaacag | tcttgatggg | cttgccagca  | acagcttttt  | cttattttcc  | ataatttggt | 180 |
| cttagtcgtt | ctccagttgt | cttcattgta  | ataaagtggc  | ccatggcaat  | catgattctg | 240 |
| taattgttat | agtgcctttg | taagttgaca  | gtttccaaat  | cccttactc   | atacgacccc | 300 |
| tgtgaagggg | ggtgtgaagg | ggttggtggg  | cttgtgcata  | tgagggaatg  | tgaacgattt | 360 |
| cattatgacc | gaattatgct | ttactcaata  | agcactcaaa  | cactaccatc  | tcactttag  | 420 |
| tagaagtgct | agggatgcaa | ccaagaaaact | ggttgaataa  | tgggaangtt  | aatgcctga  | 480 |
| gtattttaat | ngaaaaaaat | nttaaaaacc  | aaccocaaact | cgttgggaaa  | gangcttttg | 540 |
| ctanggcctc | cttttttaca | ngggttgcc   |             |             |            | 570 |

<210> 10029

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10029

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ctttgggaga | cagagtttgc | ttcttgttgc | ccaggttggg | gtgcagtggc  | gcggtctcgg | 60  |
| ctcactgcaa | cctccacctc | ctgggttcaa | gcaattctcc | tgccctcagtc | tccttagtag | 120 |
| ctgggattac | aggtgcccac | caccacaccc | aggtgatttt | tgtattttta  | gtagagatgg | 180 |

|            |             |             |             |            |             |     |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| ggtttcgcca | tggtggccag  | gctgggtcttg | aactcctgac  | ctcaggtgat | ccaccacacat | 240 |
| tggcctccca | aagtgtctggg | attacaggcg  | tgagccactg  | cacctggcca | agtgtacatt  | 300 |
| cttaagaaca | acgtacatag  | attggggaaa  | agtatctcgt  | tttcattctg | agagctaata  | 360 |
| caactgagag | tgtacgaaga  | ggtcaaacac  | agggaactgct | gggtggaaca | cactgnçact  | 420 |
| ccacctnccc | ctnccccctct | gtgccacaca  | cctgatgtgg  | ccccacccaa | cacagncacg  | 480 |
| anccttctac | ccccancan   | ctgccaaggg  | ccctgagttt  | aanccaaaaa | aggagcangg  | 540 |
| gcatncttt  |             |             |             |            |             | 549 |

<210> 10030

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10030

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacatagt | ctcactgtgt | cgcccaggct | gcagtggcat | gatctcagct | cactgcaacc | 60  |
| tccgcctcct | gggttgaagt | gattctcatg | cctcagcctc | ccaagtagct | gcgatcacag | 120 |
| gcacacgcca | ccacgcccag | ctaatttttg | tatttttagt | agagacgggg | cttcaccatg | 180 |
| ttggtcagga | tggtctcgac | ctcttgactt | tgtgatccgc | ccacctcggc | atcccaaagt | 240 |
| gttgggatta | caggcgtgag | ccaccacgcc | cggcctcaac | tcttaatata | tgtcagcccc | 300 |
| tcctttgcaa | ccagctctgc | gtgctgctgc | tgacaagcag | catgggtgtg | aggcatggga | 360 |
| tgtcctagag | tccagccaac | ctgagctctg | tgatcttggg | caagttatit | cccttctttg | 420 |
| agtgtcaagt | tttcttcac  | tattaaatgg | ggtcacact  | ttcacttgnc | ctgaaaagta | 480 |
| tccagataat | acacagttag | cacagtgcct | ggcccacagt | aaaccttnga | atggtgnagc | 540 |
| ttcatgaaaa | aaa        |            |            |            |            | 553 |

<210> 10031

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10031

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| attgcagttc | actttattgc | acgtcaagat | attgcctttt | tttttttaaa | caaattgaag | 60  |
| gttcggggta | actccagagt | caagcaagtc | tattggcaac | attttccac  | gagcatgtgc | 120 |
| ccactttgta | tctgtgtgtc | acactttcgc | aattcttgca | atatttcaaa | cttcttcctt | 180 |
| attatatctg | ttgtgaagct | ggttctccca | gacgttccct | gcaggctgtt | tatgcagcgc | 240 |
| ccatccgaga | tgaaccaca  | ggacactcag | gatccagac  | tgcaggagtc | gtctgggata | 300 |
| acaggcgggg | cagagcaatt | tgtcaatgtc | tatgaggagt | cctccttggc | agcccagtct | 360 |
| ttatcctcac | tcacgtggaa | atgagattcg | acctctccta | atcacctggg | gcccaggagg | 420 |
| caggtaggcg | cctgtcccaa | gcctgagttt | cctgggaaat | ctacatttca | gcacagatgg | 480 |
| gttcccagca | gcttantgct | ctggctgncc | ttangnact  | gaatcatttn | acccttaggt | 540 |
| ttttggntgg | tggtttgaaa | a          |            |            |            | 561 |

<210> 10032

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10032

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| cattgtacaa | tgctaattgtt | actttatctt | gaaaacaatc | ttgagaagta  | ggaattattg | 60  |
| tcctctttca | caagacagga  | aaaatgaggc | caagggttag | tgacttgctg  | agggtcacac | 120 |
| agtgacagag | tggtatcctg  | gtccctgtcc | ctgacttctt | ccctagggct  | cctcctcctg | 180 |
| ggcatctcac | tcagaggaag  | cagggccatc | agtggtagtg | gtgccagctc  | ttggggagct | 240 |
| attttcccc  | agggtgggtta | agttctctcc | tagtatacaa | caggatgggtg | gctacaccgt | 300 |
| catgataggg | agaacagcta  | tcttaggagg | ctgcttgcta | gacagagatg  | ggtgtgtgtg | 360 |
| cgtgtctgtc | tgtctgtctg  | tctgtctgtc | ctgggtccag | agccgtcaat  | tcttcagcct | 420 |
| cagtcttccc | tctattgccc  | tctcctggac | atagggaaga | agtgcctctc  | cctgctgccc | 480 |
| ccaggattac | tccctggctt  | tttcaacttt | cccacattca | tcctgaantg  | gccctttggc | 540 |
| tgtcaccaag | gnccggctgg  | gcn        |            |             |            | 563 |

<210> 10033

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10033

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggtggaagaa | acagatacat | cagactagtc | cagcgtctca | gtttccacac | ttcataacaa | 60  |
| tggggcaccg | tgcacctagt | gtctaactta | ccacgtctgc | tttgggccac | aaattccata | 120 |
| ctgtaacagc | caattaccca | aaacactaaa | tagggaatgg | ctcaaaaaag | gctgtttctg | 180 |
| aaaaagcagc | agcattttga | tgagcaaaaa | tagtaagaga | ggatttttta | aacttagaaa | 240 |
| aacgaggaaa | gttgaaccca | gctaagaata | tttctgagac | acccccacc  | ccttgtgatt | 300 |
| tttctccgcg | taggattttc | ccttgactcg | cctctttaga | gactgctaaa | cacacacaca | 360 |
| catacacaca | ctcatttttt | aatcccacca | actctcctcg | ccccaggcc  | agaggcttgg | 420 |
| cgttgacagc | ttcgaacaat | gacatcacc  | taggtttgcc | tccttggcag | ggtcaccaat | 480 |
| actgnttgca | gtcaatttcc | tgtaaaggct | ctttaangna | ngaaactaat | cctgngccct | 540 |
| gaggccttcc | ctgngntgaa | c          |            |            |            | 561 |

<210> 10034

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10034

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| cgaccaatat | ggtttatttc | tgccccagcc | aagcttcttt | ggaccctggc  | tgggggaaaag | 60  |
| gcaccccagg | caccggcaag | ttccagtcac | tgcanatcct | ccaggtctag  | gtgtgactgg  | 120 |
| tagtagcctg | ggcactgttg | ctggacgttg | tattctcctt | ccttcttccg  | ccggcgggtg  | 180 |
| gtcaccagga | caccgcanat | caggcatgtg | atgagtccca | ggagtccctg  | caagccgatg  | 240 |
| aagatgacag | ccanaaggg  | aaggtcanaa | ttcccagtta | agggtctcatt | tctgttggga  | 300 |
| gaatacccat | ccacaaggac | actgctcctg | tccagggtga | agttctgcag  | ctgggtacca  | 360 |
| ttccgggtca | tccgcagaaa | ttcctcatag | atggcaactc | tgntactct   | ccgagccagt  | 420 |
| ggcgaaaagt | tcacaggagg | tccaccccg  | tgtggtgcct | gttggggaca  | gacctgaatg  | 480 |
| ttgaacttga | cagtcngaaa | aatactttgg | agctgctgtt | tnggaaaaaa  | ttgtttaacc  | 540 |
| catnctcaan | tttct      |            |            |             |             | 556 |

<210> 10035

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10035

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| aagtaagaag  | acttgtcagc | tgccataggtg | ctctagaggc | aatgcaagtg  | cttccacaga | 60  |
| gaagaggcag  | aagaaacaga | ggcgggaaaa  | ggtgcagggt | gcagtctagg  | agactgctct | 120 |
| tatcatgctt  | caaggggccc | actccactgc  | agtgggttct | caggacaatt  | tttttttttc | 180 |
| cttttttcta  | tagctaaatc | tgccaggatag | atcttcagta | tcttaaaatg  | gttactttta | 240 |
| attttttagaa | gatttaggct | taactgtaag  | tcccttaaac | tcttaaaagtc | tatgtcttta | 300 |
| gctacaaaat  | gaagaattaa | agtaggctat  | ctctaaggnc | tcttgcactc  | tctaattcaa | 360 |
| tgagaaaact  | ctcattaatt | tcatcacgta  | tgatgagtag | aaaataatca  | atgaacataa | 420 |
| atgcatactt  | atgcaagggc | atcttatttt  | aaatttgata | tggataaata  | agactactta | 480 |
| tggatttact  | ggnatcaagg | ngctggaagg  | attgagaaan | acaagctncc  | ctgnanance | 540 |
| cccg        |            |             |            |             |            | 544 |

<210> 10036

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10036

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cttgagacgg | agccttacc  | tggtgcccag | gctggagtgc | aatggcgcca | tctcggctca | 60  |
| ctgcaacctc | cgcttcccgg | gttcaagcaa | ttctcctgcc | tcgaactccc | aaatagttgc | 120 |
| gattacaggt | gagcgccacc | atgccagct  | gatttttttg | tatctttagt | agagacgggg | 180 |
| tttcaccacg | ttggccaggc | tggtctcaaa | ctcctgacct | tgtgatccgc | atgccccggc | 240 |
| ctcccaaagt | gctgagatta | caggcatgag | ccaccgtgct | cggccaaaaa | tgaagcattt | 300 |
| cttattagta | gaagaaagaa | gaccagctaa | acaggaagca | taatgaactc | ctagctaagc | 360 |
| tcagaggaat | ttgtctgcaa | aacccttaca | gaacaccaca | caatcaaatt | atttgctcca | 420 |
| tagcaacttt | acccccaaag | tgcanatctg | tttggcttat | tggcttgagg | gctacctgcc | 480 |
| aggatctang | nccatggttg | cttggcctct | gagctctggc | tttncatttc | cacnggtttc | 540 |
| tggtgggggn | ccctaaattg | g          |            |            |            | 561 |

<210> 10037

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10037

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| gaaaagtata | taacagattt | ctttattatt | atttacaatc  | aagttctgtt  | ggccaacata | 60  |
| atgaaataaa | taaaagatgt | gccctggcct | gtgaatttca  | actctccttg  | acttaagttc | 120 |
| tctgaagggc | aaattggaaa | gcggtgatca | ggcagggaag  | agagggcagg  | tggaggccag | 180 |
| gaccatcggt | gggaaggccg | cctgactcct | ctctcaccag  | ctctaact    | cacatcccca | 240 |
| aatgtccaga | gaacaagcat | ggaagaaaaa | aaataaagt   | caaatttaaa  | agtataaaaa | 300 |
| agggtgtttc | gcacacccaa | tgaactaaaa | ctttatacgt  | aggtaaaaata | gtaaagataa | 360 |
| atgtttttcc | ttggccttca | tcacaacccc | tgaacaggaa  | agatggcgct  | gctgtgcttc | 420 |
| tgagcctagg | cttcttacct | aaagcaccaa | gggcatcgca  | cacangcttg  | gcaaaagggc | 480 |
| catggncaga | atcccacctt | nagacaagta | tggttggaang | ctcgaaaccc  | ttggancccc | 540 |
| aacatgcang | ggg        |            |             |             |            | 553 |

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<210> 10038  
<211> 541  
<212> DNA  
<213> Homo sapiens

<400> 10038  
anacggagtc ttgctctgtc tccaggctgg agtgcagngg ngngatcttg gctcattgca 60  
acctntgcct cccaggttca agngattctc ttgcctaana ctcccagagta gctggggatta 120  
cagttgcatg ccaccacacc tggctaattt tttgtatttt tagtananat ggagtttcac 180  
catgttggcc aggatggnc tcaatctcctg acctcatgat ccaccacacct cagcctccca 240  
aagngctggg attacaggng tgagccacca caccggctg tcagtgnntt tataccatt 300  
ttggggaggg aaaaactgag catcccgaga tgaagtaact tactcagggc cgtanaaatg 360  
tgacaaaat caatcttatt gactcattct aaaagcaact cattgcctct taaatgaaga 420  
agaaaagacat ccttcagctg gctcttgggt tcanaccccc tgggctaagt caccttggct 480  
acatggn tca naatgcc cactctttgg acctttangg ggccacaagt ntttattgga 540  
g 541

<210> 10039  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 10039  
gggttgtgca aagaaagctt tttatttgag aacacctaga tacttttggga aatgttcttg 60  
ttggatcaca aacaacctaa ctgacagtct atcgccaaca tccacaaaca cagcaaacag 120  
tccagtccctg cagaccacac aggggtacatc tagagggttc tacttgcatc acccacactt 180  
ccactcctgt gaaacaactg tcttgggcat gagaagggcc aggataggcc aggtgaatgg 240  
caggctgccc aacaaccccc atcccaaacc aacctccag gccatgggcc caagtccctg 300  
caggaagatg ctaataggta caacaggtag aacatgtaga cacaacatc tagtttattt 360  
ttcttgactg taaccaaagt cagcaaaaga aacaacaaaa cttcagtgcc ctagaaatcc 420  
tcctggattc aatgacaaca catcaatggc cgggcacang gttggattcc ttttatgaaa 480  
tcacctata atctctcatc atnccaggac agtggctttt gggactgcat gaatcnttna 540  
tagctcccc ccaaattntt atcctt 566

<210> 10040  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10040  
gggcagcttt catctgtgtt ttttttttt catataaaag ttacatgttt gaaatgtctg 60  
caggaagatg ccaccatcag acaggttagc tggggcatat atattacaat gtaaccctgt 120  
ggaggtcgtg gggccggagc gggaagatgc tccagtgag ggctgggga tttgcctggg 180  
cacactgggg ccaggcacag ggtctgttct gaattcaggg aaggtgaaga gacccacct 240  
ctatccagct caagcccaag aacaaggcag acagagctgt ggacagcacc cgaccacaga 300  
cacggttctg cctgctgctg gagttagagg cctggtttct gaggtgcag catggcactg 360  
gcattgcctg tgctacagat ggggactcct gcgagtctca caaatacagg gagaatttca 420  
gttcacacaa cccaagggcc ctgtgtgcaa agcgggcctt aaacgcgcac aggaacattn 480

09629469.072300



aacaaaactt ggcaagggga agggganaaa anatcaaggt ttgnaatgaa gggncitttaa 540  
aaagaaggnc cnacttaaaa c 561

<210> 10041

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10041

gatacagagt ctactgtgc caccaggt ggagtgcagt ggctgatct tggctcactg 60  
caagctccgc ctctgggtt caccgcatc tcttgctca gtctcctgag tagctgggac 120  
tacaggcgcc cgccaccaag cctggctaatt tctttttgta ttttttagtag agacgggggtt 180  
tcaccgtgct agccaggatg gtctcgatct cctgacctcg tgatccgccc gccttggcct 240  
cccaaagtac tgggattaca ggtgtgagcc actgtgcccg gcccaatttg ttttttaagc 300  
cctgatgttt tctcagttgg gtttgaactc agtccctcta caaagtcatt ctaaactatt 360  
cctagactga tagaccattc ttggattgga ccattcctgg attgggcaat ggcaacactc 420  
ttccagaaac cattagaatg actctaaaga gacgagaagc actttttctc tctgcctctt 480  
cctaaaggct gaatatatcc tattggccat gggctgggta attccttttg angtgaggga 540  
ttgactcctt ctcaactccc c 561

<210> 10042

<211> 505

<212> DNA

<213> Homo sapiens

<400> 10042

agatttaaaa gcatttaatg acatagcata tatttaacag atagggcaaa agttgagagg 60  
tacaggctgt acgactgagc accaggcctg agcgaccaac tccctgttca ggcccagcct 120  
ctggagttca ttcctatcaa tgtcattttg attgtgcagt aagatgaaaa tttgtcatta 180  
caatagttac agtgacagag aaatgcacac tatgtatcaa atagcaagga aatgaagcaa 240  
attataacac agtgtggcaa cgcacgagca agtaaccatt agagtaacat tactttgtcc 300  
agtaaagtct tcagttccac cacttgtaca cttaccaatg atttaaaggg tttattatac 360  
atctagtttt attatacttt gnactagaat tatctcaaac gtacaatata atgnatttca 420  
gcaaaaaaaaa aaaaaattgg aattaccgat tatttnaaac agnntcaggt ttctattcct 480  
tcttgatac tggcantntt aancg 505

<210> 10043

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10043

aatctgcaaa ccaagaacct ggaaaggaat acaaattcct tcttgaaaa catgtatccc 60  
ttcctgccct ccctccacgc cctgataaat aacatgagca tgcagcgatt gccaacagca 120  
gctccaggca tgaggcacia catctgttac tgagacactg gagagacagt ggaaagcaag 180  
ttggctgcct gccaacctc agactccaga tttttgtgta caaggctgtc aataaatggg 240  
cagatggcat cagctctgct ggcagaagag ttcagttaac ccagtgcggg acattatttc 300  
aaattcatgg tgcaccaggc tgagcccttt gttgggccat taaagccatt ccttgatgga 360

09629469.072300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaagggagag | caggactagg | aaatcaggag | gcactagcct | catttaatta | gattaactaa | 420 |
| gcctttccag | tggcagccag | aatcaganta | ncccttngga | acnttgaaag | ctatggattt | 480 |
| tttttttggg | tttgggaagg | ccgggaaaaa | ncctanttcc | acattgnatt | ttatgccat  | 539 |

<210> 10044  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| <400> 10044 |            |             |            |             |            |     |
| gagatggagt  | cttgctcttg | ttgccagggc  | tagattgcaa | tggcgcgac   | ttggctcact | 60  |
| gaaatctctg  | cctcctgggt | tcaagcgatt  | ttcctgcctc | agcctcccca  | gtagcaggga | 120 |
| ttaaaggcac  | atgccaccat | gcctgggctaa | ttttttatat | tttttagtaga | gaaagggtgt | 180 |
| caccatgctg  | gccaggctgg | tctcgaactc  | ccaaccttag | gtgatctgcc  | tgtctcagcc | 240 |
| tcccaaagtg  | ctgtgattac | aggcgccctc  | tttccttaat | aatcccta    | ttttggctag | 300 |
| gttgttgggt  | aaaagtatt  | tcctgataaa  | caaggcggtt | ccttatatat  | attatcaata | 360 |
| aaattatatg  | tataaataca | tggaaatgca  | cgcatagtat | tgcattattc  | aataagaagt | 420 |
| tttacagctg  | aatatccctc | ttaagaattc  | cttgaggggc | aagactctat  | ttcctttttt | 480 |
| tccttttcct  | ttttttttga | anccgggttc  | ccaggnttga | atcacagggg  | gggaacntn  | 539 |

<210> 10045  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 10045 |            |             |            |            |            |     |
| gagacggagt  | ctcactctgt | caaccaggct  | ggaatgcagt | ggcacgatct | tagctcattg | 60  |
| caacccccgc  | ctccccgggt | taagcaattc  | tccttgcctt | agcctcccaa | gtagctggga | 120 |
| taacaggcgc  | ccgccaccat | gcctgggctaa | tttttgtatt | tttagtaaag | acagggtttc | 180 |
| accatgttgg  | ccaggctggg | ctcaaactcc  | tgaccttagg | tgatccgccc | tccttggcct | 240 |
| cgcaaagtgc  | tgggattata | ggcgtgagcc  | accatacctg | gcttgcctgt | accttttaaa | 300 |
| tgtacatagt  | aatcaaactg | atccacagaa  | tgtccctttc | agggacatga | taactgaccc | 360 |
| cctgaaccag  | ccagaaagag | gagagggact  | tgccttaagc | aagtattgtg | ggaagatcac | 420 |
| caaattacta  | gacatggatc | actatccntc  | tggatccggc | cccaaacaaa | cnttaaaatt | 480 |
| accttaccaa  | acangntag  | aacaatntga  | aatggaatta | aaaggngccc | caaactggat | 540 |
| tgn         |            |             |            |            |            | 543 |

<210> 10046  
 <211> 510  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10046 |            |            |            |            |            |     |
| gctcttgttg  | cccaggctgg | agggcagcgg | cgcatctca  | gctcgtgcaa | cctcagcatc | 60  |
| cctggctcaa  | gtgactctcc | tgctcagcc  | tcccgagtag | ctggaattac | aggcgcgcac | 120 |
| cacaacaccc  | agccaatttt | ctgtattttt | agtagagacg | gggtttcatg | ttggtcaggg | 180 |
| tggctcctaa  | ctcctgacct | caggngatcc | accacacctg | gcctcccaaa | gnggtgggaa | 240 |
| tacaggcatg  | agccactgng | ctcaggcccc | aagcccccat | tctttctgta | acctcaagat | 300 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcatataag | cttctgcacc | ccattgcana | gtggggagta | atcaatcact | ctgnggttct | 360 |
| ccctgtgtgc | gcattataa  | atttgcattg | catttctgct | attcatctgc | cttttgnacg | 420 |
| ttgacttttc | agtgaacctt | tanagggcaa | aggggaaagt | ttcccttggn | tttcataccn | 480 |
| tcaaaccttt | ttcaccaggc | ngaaanaagn |            |            |            | 510 |

<210> 10047

<211> 423

<212> DNA

<213> Homo sapiens

<400> 10047

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gcttagaaaa | ttcagcttta | atggccccag | cccttctgtc | tgagtctagt | agtccagggc | 60  |
| acagatgagg | gccacaccac | gctttatcca | gtgtcgctgg | ggctgatggg | tggggatctc | 120 |
| cacagcaatg | acatagttag | tagagtgtcc | tgtggttgat | agtgttccag | cacgagtcag | 180 |
| tgtctttag  | atggggcaca | ggtaaaagtc | ctggctcctg | gccttgcggg | tgggtgttgg | 240 |
| caagagccag | ataacggcca | tctctgtgta | cagctccttg | ggctgagact | cagccagctg | 300 |
| gaaggcctct | ggatcccagc | gggcaccttc | caggaataat | ccatggatat | agcaccctac | 360 |
| ttggggtctt | tgngttaact | ctgatggtgc | ctnaaacatn | accttgnaat | caaangguna | 420 |
| tgn        |            |            |            |            |            | 423 |

<210> 10048

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10048

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gagacggagt | cttgctctgt | cacccgggct  | ggagtgcagt | ggcgcgatca | tggctcactg  | 60  |
| caagctccgc | ctcctgggtt | cacaccattc  | tccagcctca | gcctcccaag | ctgctggggc  | 120 |
| tacaggcgcc | caccaccacg | ccaagcgaat  | tttttgtatt | tttttagtag | agacagggtt  | 180 |
| tcactgtgtt | agccaggatg | gtctcaatct  | cccaaccttg | ngatccaccc | acctcggcct  | 240 |
| cccaaagtgc | tgggattaca | ggcgtgagcc  | actgtgcctg | gactaaaaca | atgctttcta  | 300 |
| aagcgcattc | tgcagcctga | tgtgcctgtg  | aggtgagagg | tgtgggaggg | acagaagctt  | 360 |
| tgttcaaaga | ggtttgggag | aggctggata  | cttagctccc | ttcttgnaag | tttgccacac  | 420 |
| acattggcat | attaaagggt | ctgagaaaagc | attcaggggc | ctggtctggt | taagggggccc | 480 |
| ccaataactt | ggccccatna | cggntaattc  | tgggaantta | gttaataacc | taggggttcgg | 540 |

<210> 10049

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10049

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aaagacagag | ttttgctctg | ttgccaaagc | tggggtgcag | tggcagcatc | tcagctcact | 60  |
| acaacctctg | ctcctgggtt | tcaagcgatt | ctcctgcctc | agcgtctoga | gtagctgaga | 120 |
| ttacagggtg | gcaccaccac | gcccagcaaa | tttttgtatt | tttagtagag | acaggttttc | 180 |
| accacattgg | ccaggctggt | cctgaactcc | tgacctcaag | tgatccacct | gtcttggcct | 240 |
| cccaaagtgc | tgggattaca | tgcttgagcc | actgcacctg | gccccatata | gagtttttat | 300 |
| tgncattatt | cccatattac | agatgaaggg | actaaggctc | aaagggtaaa | taagtctgtt | 360 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cttaaatagt | gacttcctga | gacacaggag | atgtttaaga | acagtactgg | taggtgggaa | 420 |
| gtggcatttt | ggagcaggag | tgagaagcct | tgaaaatgta | tnaaganttg | aaaaagggnn | 480 |
| gggaaacann | ccnatta    |            |            |            |            | 497 |

<210> 10050  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 10050 |            |             |             |             |            |     |
| aattggatga  | ttttggacaa | gtctgtgcat  | ttattcatat  | ottattccat  | gtcaggggac | 60  |
| tcagtacaaa  | ggtgaaaaag | acaaagtgtc  | tgttctcaag  | gagtatactt  | tagacacata | 120 |
| agctagcaat  | aaacaaacag | gatgatttta  | gctcatgaca  | gggctacaca  | gacagtaaca | 180 |
| gtgatgagat  | agagtgatgg | ggaagagggtg | cttaaaaatgg | ggttggtcagg | aaaggcctct | 240 |
| gctaaccacc  | agatctcatg | ggctcatctt  | gagatttaac  | ccagcaaacc  | tcttctgagc | 300 |
| cagttggcac  | cactgatctc | cctccccctc  | tttaaactgt  | tgccctcctt  | gatttctgtg | 360 |
| acaagatact  | ggtgtcacta | tctccttgnc  | tcttcttact  | tccagctccc  | tctttcagcc | 420 |
| ttctatgcag  | gcacatcttc | ttttgccacc  | cattaaaatc  | cctgggtngcc | angacaacca | 480 |
| ttccttctgg  | cggnttgaaa | gaaagctcaa  | gtgcncacaa  | ggccnnn     |            | 527 |

<210> 10051  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 10051 |            |            |            |            |             |     |
| aaagacacgt  | gtctccctct | gttgtccagg | ctagagtgca | gtggcatgat | catagctcac  | 60  |
| tgtagccctg  | aactcctggg | ctcgagccat | cctccaacct | cagccctaca | gatccctaca  | 120 |
| actacaggcc  | catgccattg | tgccctgttg | cattcttttt | acttttttgt | agatactggg  | 180 |
| tctcactgtg  | ttgcttaggc | tggctctcaa | ctccggggct | caagcaatcc | tcccacctcg  | 240 |
| gcctctcaaa  | gtgttcggat | tagaagcatg | gaccactgca | cccggccttc | tgagctcttt  | 300 |
| ttcaactagg  | tctcaacttt | tggacttctg | tgttcatctc | tgccctgttc | aatttttagca | 360 |
| agtatcgtgc  | ttaaagtggg | tttagctaga | atcctcatcc | tnacacatcg | atcactctca  | 420 |
| aaatctaata  | gggcttctta | tccnttggca | tccttcatga | atggctaatt | accctgggct  | 480 |
| ggccctnaac  | aagaaatcct | ggtanggact | atttaaccgg | aattccccac | aaatgcctgg  | 540 |
| aggaancctc  | ttanncattg | ggcn       |            |            |             | 564 |

<210> 10052  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10052 |            |            |            |            |            |     |
| acaatgctaa  | tgttatttta | tcttgaaaac | aatcttgaga | agtaggaatt | attgtcctct | 60  |
| ttcacaagac  | aggaaaaatg | aggccaaggg | ttagtgaact | gctgagggtc | acacagtgc  | 120 |
| agagtggat   | cctgggtccc | gtccctgact | tcttccctag | ggctcctcct | cctgggcatc | 180 |
| tcactcagag  | gaagcagggc | catcagtggg | actgggtgca | gctcttgggg | agctattttc | 240 |
| ccccagggtg  | gttaagttct | ctcctagtag | acaacaggat | ggtggctaca | ccgtcatgat | 300 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agggagaaca | gctatcttag | gaggctgctt | gctagacaga | gatgggtgtg | tgtgccgtgt | 360 |
| ctgtctgtct | gtctgtctgt | ctgtctgtct | gtctgtcctg | gtccagagc  | ccgtcaattc | 420 |
| ttcaacctcg | nttccctcta | ttggcctttt | ctggacatag | ggaanaagt  | cttcttcctg | 480 |
| gtgncccca  | gaatactcct | ggctntttca | nttttcccaa | atccatcctg | aatggncct  | 540 |
| ttggcttgcc | ccaag      |            |            |            |            | 555 |

<210> 10053

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10053

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aaagggcaca | catacacttt | taccgtttac  | accaaaccag | aatcaaaacc | caaatcagag | 60  |
| tatccagaaa | tccaagccag | gtcaaaaacca | aaacgaaagt | atcaagcaat | ccaaatcaag | 120 |
| tcaaaaacaa | aaaccaaagt | gccggtacag  | gcatgccgtg | ggtgatcagg | ccacccttcc | 180 |
| actcaaatgg | agtgggcaag | ttccaaagac  | tagtcttacc | aagtttcaga | tgtccggact | 240 |
| ccaagtgcct | gttccttccc | agtgttcagc  | cgctgcattg | atcctctgtg | gtggcctgcc | 300 |
| acacgccact | ctggcgaggt | gttccactgg  | ggcaattgcc | taccggggag | tgctctcagg | 360 |
| ttctgcgtcc | ctcaagctgg | ccagagtccc  | ctgtagggat | gctccacagg | gcaggcctat | 420 |
| gctgcctaag | gggcttgctt | cgactatctg  | gtaatcacct | ggctttccaa | tcagggnacc | 480 |
| ccagaaatgt | ancanggaca | agnccgnang  | ggttggattt | cancctgga  |            | 529 |

<210> 10054

<211> 496

<212> DNA

<213> Homo sapiens

<400> 10054

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gagacagagt | ctcagtcacc | caggctggag | tgcagtgtcc  | cagtcttgac | tctctgcaac | 60  |
| ctctgcctcc | tgggttgaag | tggttttcct | gccttagcct  | cctgagtagt | ggggattaca | 120 |
| ggtgtccacc | accacgccc  | gctaattttt | atatttttag  | tagagacggg | gttttgccat | 180 |
| gttggccagg | ctggtctcaa | actcctgacc | tcagggtgatc | cgcccgctgc | agcctcccaa | 240 |
| agtgtctgga | ttacaggcgt | gagccaccgc | gcctggctaa  | agcagtgggt | tttataaggt | 300 |
| atctgctcca | gtttctacct | tcggtagtga | caatgtgttt  | gtttgcattt | cccacacgtg | 360 |
| tgtccaatgt | ttgcttggtt | tcttcttcag | gaaatcaact  | ttttgtgagt | gtgctgaagg | 420 |
| caacangctt | tgccagtaca | cagaacttcg | tgaaaaccac  | tngaaacngn | cacttgctca | 480 |
| tctgnccntt | ctngng     |            |             |            |            | 496 |

<210> 10055

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10055

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagatggagt | tttgctctta | ttgccaggc  | tggagtgcaa | tggcacgata | tcggctcatc | 60  |
| aaaatctcca | gtccccgggt | tccagcgatt | ctcctgcctc | agcctcccaa | gtagctggga | 120 |
| ttataggctt | gcgccaccac | accagctaa  | ttttgtattt | ttagtagaga | tggggtttct | 180 |
| ccgtgttgg  | caggccggtc | tcgaactccc | aaactcaggt | gatcagccca | ccttggcctc | 240 |

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ccaaagtgct | gggattacag | gcctgagcaa | ctgcgcccgg  | gctttttttt | tttttttaaa | 300 |
| agatagtctt | gctctctcgc | acaggctgat | tgcattgggtg | cgtgatctca | gctcactgca | 360 |
| acctccgcct | cctgggttca | agcaattctt | gggnattttt  | agtaaaanat | ggggccttcc | 420 |
| atattggccc | aggctggnct | aaactccngg | ncttaaacca  | nn         |            | 462 |

<210> 10056

<211> 417

<212> DNA

<213> Homo sapiens

<400> 10056

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gcaaagacaa | acatttttatt | tttcatgata | ggagctgtag | cagagtatat | gggggcctct | 60  |
| gccagccccc | aggctgggac  | tggggcctgt | gaccttgaga | acctcatctc | acattctgca | 120 |
| gactttggcg | gcggggcagt  | gctcgaccac | tggctgggtg | ggctgatctc | agcctctcct | 180 |
| gcaggcccag | ggctgaaatc  | ataaccgtca | ggcccagcct | tggccaaaga | taatgcaact | 240 |
| ttggcagggc | tggctgctgg  | gagggggcag | gcacttgctc | ctcgtagagc | aagagtgggt | 300 |
| ttcttccctg | acctctccctt | ccaccccggg | agggtgggtt | ccttaggaac | tcaggcctgc | 360 |
| gggagaaatg | gttccagctt  | ctggaggctg | ggtgggggtg | gggttggggg | nnnnnnnn   | 417 |

<210> 10057

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10057

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gaccagaaag | agactttttc | taatacagca | gtgtttttggc | tgggacaggt | tggccggact | 60  |
| ctccaggaac | gtggtgaaga | gcgtggggga | ggcggctgag  | gcagggcaga | gccaggctg  | 120 |
| cagagctgtg | tgcttcacaa | gttggctctg | tggctgggaa  | ggctccacgg | ccataaggac | 180 |
| cctggccttt | gatttctctg | gaggaacagc | acttggaaacg | gagtaagaat | ttcaggcaat | 240 |
| cacctggttt | ccccaatggc | tttcttgtct | cacggacagt  | ttaacaaagc | tggcagagtc | 300 |
| ctgtaactag | gatctgtaac | tttgggggta | agggcaagta  | ggaacagaca | tccaaaacaa | 360 |
| ctgagtgtcg | ggataaaggc | ttgaccggaa | agatttcagg  | ggccnnggct | ttgtttgcat | 420 |
| tntgnaaac  | tnntcan    |            |             |            |            | 437 |

<210> 10058

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10058

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| ctagagtttg | tctattttat | tagtcttttt | aaagaaccat  | gtatgtcagg  | tttctttcag | 60  |
| gaaatagatg | gtgtattcaa | actggataat | ctaataaagt  | tatatattata | aaagtataga | 120 |
| aagagtatag | tgaaccaca  | agtaatagca | gaatccccctg | ggactgggac  | aagaggatgg | 180 |
| agcagtcacc | agaacctgga | gacagagagg | gctgcctggc  | ttcagataat  | gtcagcatct | 240 |
| gtgctgtatg | agttccagtg | tggcagccct | ctcctaaatt  | accccaattc  | cctctggatc | 300 |
| tgggatctgc | tccctcctct | tgcacctgag | gtctgggggt  | gggaaaggct  | cccactctt  | 360 |
| gctagttcca | gggtgcttca | ctggccttta | tgagtttccc  | ttcacccctgt | tcacaccttg | 420 |
| gtgaatattc | tcttctgac  | atgctcctca | gttccnccact | tgaatgggcc  | atctgnttct | 480 |

tggcgggacc ntgactgcac tggttcattc caanctgggtg agctgggctt taaattggnc 540  
ctgggtaacc 550

<210> 10059  
<211> 552  
<212> DNA  
<213> Homo sapiens

<400> 10059  
gagatggagt cttgctctgt tgcccaacct ggagtgcagt gttatgattt tggctcactg 60  
caacctctac catgttcaag cgattctccc acctctgcct cccgtgtagc tgggatcaca 120  
ggcacacgcc accacaccta gctacttttt gtatttttag tagaaatggg gtttcacat 180  
gttggccagg atgggtccga actcctgacc tcaagtgatc ctctgcctc ggccctccaa 240  
agtgtggga ttacagggtgt gagccactgt gcctggocaa aaatgtgatt tcttatttcc 300  
cacattgccca attccatttc aattaactat aatagctatg tctattgagc actcaagcgt 360  
attctagaaa ctgttcctga ttctggggat atatccatga atgaactata gtccctgtta 420  
ttaagtaatc cgtagtctga ctaaaccatt agaaattaaa aaaaaaatgg ctactttcaa 480  
agacatcttg gagttcanga gtcccacact gggaaccatt ttacctata atncaanctg 540  
nttgaatta ac 552

<210> 10060  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 10060  
catagggtct cgctctgtca ctcaggctgg agtgcagtgg tgtgatcatg gotcactgcg 60  
tcaactgtagc ctaccctcc tgggctcaag tgatcctcct gtctcagccc tccaagtag 120  
ctgggccaca ggtgtgtgcc accatgccca gttttttttt tttttttcgt aaanatgggg 180  
gtctcactac gttaaactggg ctggtctcaa actcctgagc tcaagcaatc cttccaactt 240  
ggcctcccaa agcgttaggc ttacaggaat gagccaccgt gcctggccan aatcggttac 300  
atatatgtga catatgtgta atacatgtgt gcctgtcccc aggtntcagg gcagagagaa 360  
cacactttct cctactattt taccacacc ttcttgctgg gaggctatta aacctgaagg 420  
tctggtaacta tgtantgggt aagggtgana tatggattca aaccacactg gggtttaagt 480  
ccctgnnttg gcaattaatt ttaatgggac ccctgggcaa ggggaaccnc cctttttggg 540  
ncctgggttc cctngttn 558

<210> 10061  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 10061  
ctgctcgggtg ccattttatt taatgcaaac actagacagt ttacaagtca cacctggaca 60  
caagcacgtg aacagatgta cagggaattc tggaattttg agatcagtc ccatctcttc 120  
ctcagggcc tgggactgaa cacggtctca cagacagcac atattctacg tcacagctct 180  
agggtttcaa ggacttagcc atccgacagg cctcaccata aaggtaaagt ggacaacccc 240  
tgaggtcacg ctgtccaggt ggcgacaggc cagcatgcc aaaatcctcc atagccacct 300

09629469.072800

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| cgggccagc   | accagccaga | gggtggggcc | atcggttctc  | gacataacttg | gtataaggga | 360 |
| gggacaagcc  | tgacaaagtt | cacaatctgg | ccaatgagtg  | tgggaggccc  | tggaacagg  | 420 |
| ccaatcctgc  | aagccacccc | acccttacta | acttcctgaa  | catgggaagc  | tttttgagac | 480 |
| caggnccaag  | gttcttttcc | tttattggga | ccacgcacaaa | ggcatttntg  | cantgcttga | 540 |
| aggtcccccct | ttaaaccn   |            |             |             |            | 558 |

<210> 10062

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10062

|            |             |             |             |             |             |     |
|------------|-------------|-------------|-------------|-------------|-------------|-----|
| aaagggaaaa | aaaattttatt | aggtccagga  | atcaaagatg  | acttgataga  | attatgaata  | 60  |
| catgcagaat | tggatgggta  | gaaatgaaat  | caatctatit  | aggtccagcc  | taaggttctg  | 120 |
| atagccaatc | agtagacaca  | atcagagtag  | tagtattcct  | aagaaaccag  | gataaatctc  | 180 |
| caatgtgcat | gagtttaatg  | aaccagatag  | attattgtat  | cgccaatatc  | cacccttata  | 240 |
| ccattctcag | tcagatgaat  | tttcttgctc  | atgagggtcca | cattgaaaac  | agcatgctca  | 300 |
| gaaatggggg | tcttctcggt  | gtactccttt  | cccaggacag  | gaactcgtcg  | aggccccaac  | 360 |
| agtggatcat | caaatctcat  | cagtttcaact | ttggaaagggt | ctttaattcc  | tcgattcatt  | 420 |
| ttcattaaac | gcctgattat  | ggaatcacag  | ntatctncnt  | gnctggattt  | caattttgggt | 480 |
| tgaaaagtgg | ccttgatgg   | ctggggggatt | ccnccgaaaa  | accgggncccn | ccaaggttct  | 540 |

<210> 10063

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10063

|             |             |             |             |             |            |     |
|-------------|-------------|-------------|-------------|-------------|------------|-----|
| ccaagtcctt  | tatttttactg | atgagaaaaac | agccagagag  | tgaaagctga  | tgattacaaa | 60  |
| tcacagccat  | ganagctggg  | ctctgcactc  | agccctgctg  | ggctgggtgg  | ccgctgctca | 120 |
| cggngaccct  | tcaaggcagg  | cctcattctg  | tccagtanag  | gtgtgggtac  | taagtcatag | 180 |
| agctacagag  | gtgagggacc  | aggtgccctc  | actttgggtc  | caagacccat  | ctgcaccca  | 240 |
| caaattgccac | cagccacacc  | tagaacaata  | tggttttaata | caattgcgtc  | accctcactc | 300 |
| tcctgggagc  | ggagcaacaa  | aaaggctcgg  | ctcctgcccc  | cagaggacag  | taaggcttat | 360 |
| gtgtctctcc  | acactgcagg  | gcccaggctg  | ggcaggcagg  | gggtgggaag  | caggacaggg | 420 |
| ggcagggaag  | gaagggttgn  | aggcaggga   | ggaaatggca  | gggtggctgga | acccangaaa | 480 |
| gccaagggga  | nccaacttgg  | nccttggggc  | ccaggggcca  | nccccaatac  | tncngttttc | 540 |
| cnttttctg   |             |             |             |             |            | 550 |

<210> 10064

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10064

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| aatggtgatt | tttcttttatt | tccccgcacc | ttcaatctca | tggcatgggtc | tgcaggaaac | 60  |
| ctcagagtcc | tgccaactcg  | caggcttcgc | tgatcgcatg | gcacctgggc  | accccgccaa | 120 |
| agagctgaaa | ctcccaaggc  | tcagccagga | ctctccagct | gtggtgtttc  | taaaagccgt | 180 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tctgggtgag | atgtagagcc | gagttttccc | agtcgctcag | tcctcctccc | gtgaggacaa | 240 |
| cactgcttgc | tctcctggct | tgccctaccc | atccaggaaa | aggtggggag | gggctctagg | 300 |
| cagcggcctc | tcctggttga | aagaaactga | gacctgggcc | ttccgtccag | tttaacctgg | 360 |
| agcaggcctg | gcccctgggc | aggctcagag | caggctcccc | attcagcaaa | tgagggtatc | 420 |
| ctcctatatt | gccaacatcc | atcttcaccg | acttggcctg | aacctattct | tgagtacaga | 480 |
| nggacaccca | tgacagaaat | nccangtnac | ttttgctgga | agccactggg | ctggaanagg | 540 |
| acttnttt   |            |            |            |            |            | 548 |

<210> 10065

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10065

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agacagagtc | tcactctggt | gcccaggctg | gagtgcagtg | gtgcgatctc | ggctcactgc | 60  |
| aacttctgcc | tcccaggctc | aagtgattct | cctgcctcag | cctcccaggt | agctgggact | 120 |
| acgggagcat | gccaccatgc | ccagctaatt | tttgtatttt | ttgtagagac | ggggtttcac | 180 |
| catgttggcc | aggctggctc | cgaactcttg | acctcacatg | atccacttgc | cttggcctcc | 240 |
| caaactgctg | ggattacagg | cgtgagccac | tgcacctggc | ccccctctg  | ccctctcttg | 300 |
| agaggcaagg | cattttctat | acaggggtga | ggaaaagtta | aactttctat | acagtaagtt | 360 |
| agcaatgcc  | aaatcccaac | tgagaaaoga | tgtaaatttt | agtgataggg | ctgtaaccac | 420 |
| taggtaatgg | caaggacata | aatcccaata | ttcacaagtc | cttgtgggga | agggtgtgat | 480 |
| attgnatctn | cctgncactt | tatgttcata | tatggaaaca | ttatggaaat | gacctattac | 540 |
| catcttttta |            |            |            |            |            | 550 |

<210> 10066

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10066

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| gcccctttta | caggggagac | gtaaagctgt | cccagttatc  | aaaaaattca  | aatctccttt | 60  |
| tcttctgttg | actggctgtc | aatgagcttt | catccagggt  | gtctcccatg  | ttctgggaac | 120 |
| tacttccaga | tgttcctgaa | gcacttcctg | ggtcaaaagga | ctctgctgct  | tccaggagct | 180 |
| ccatatcact | tccttctttc | tcaaaggact | tctggaatag  | gtcgtagatc  | ttctgoggct | 240 |
| ttgggtcctt | gtagaggtaa | tcagtggatt | ctgtcatttc  | tgaaaaattg  | gtctcagaaa | 300 |
| gcccggcttc | tgccagaact | ttaatcttct | cttgaatcag  | gggccaaaagg | tagtcatcag | 360 |
| ctgtgccctt | tgccacgagg | tagtgaatgc | ccacggagct  | ggtctgtcca  | atgcggtgca | 420 |
| cgcggtcctc | agcctggatc | agcacccttg | ggttccaaaa  | cagctcagca  | aacaccacca | 480 |
| ggtcaaccca | ngaaaangtg | aagnccatat | tggcagcggt  | gatggacagc  | acgggcacag | 540 |
| catgctttt  |            |            |             |             |            | 549 |

<210> 10067

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10067

|            |             |            |            |             |             |     |
|------------|-------------|------------|------------|-------------|-------------|-----|
| ctttgagatg | gagtttact   | gttggtgccc | aggctggagt | gcaatgccgc  | aatctcggct  | 60  |
| cactgcaacc | tctgccttct  | gagttcaagc | gattctcctg | cctcagcctc  | ccaagtagct  | 120 |
| gggattacag | gcataatgcca | ccatgcctag | ctaattttgt | atTTTTtggt  | gagacggggt  | 180 |
| ttctccatgt | tggtcaggct  | ggtcccgaa  | tcctgacctc | aggatgatcca | cctgcctcgg  | 240 |
| cctcccaaag | tgctgtgatt  | acaggcgcca | gccaccacgc | ccagcctcaa  | ttaaccttc   | 300 |
| ttcttccct  | gacaccgcac  | atcctgactt | ctccccctta | tcctaatacca | ggactactcc  | 360 |
| ccactccttc | ctagttacct  | cccctaccct | ggggtcctag | ttggcaagga  | tctgccaaagt | 420 |
| ggtctgggtc | ttgaagaagg  | tggtgccaac | acttttaaaa | agaacctaat  | ggaaaacang  | 480 |
| cttgggggtg | ggaagggaaa  | gggttgatta | ataatcaagt | ttcctccaaa  | tagccggaat  | 540 |
| ggaaagggct | tgg         |            |            |             |             | 553 |

<210> 10068

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10068

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| atgtttcaca | atttgtatgg | ctgattctac  | gcacatttaa  | atgtgtttat  | gacaattgta | 60  |
| catttcagtt | ttcctctggt | taaaccaatg  | tggaagtaca  | caggatggga  | gctgagagac | 120 |
| aagcatcctg | ggcccagcca | tgctggcctc  | agtggggcaa  | gctggggaca  | gatgacctct | 180 |
| gctccgtgga | tcctgctggc | tcagggtggg  | gaaggggcct  | cagaagagga  | gtcaggctct | 240 |
| cctctttatt | ctcctcacag | ccatggtgaa  | tggtattcct  | gggaggctgg  | tttgagaaac | 300 |
| tcgctgaacc | taagttagca | ggaagtgaag  | gtctgttccc  | acctgtgcct  | gtgttcccag | 360 |
| atagcagctg | cctccaggag | actcaccagg  | agccagggtc  | ctccataacct | gatctcaatt | 420 |
| aactcactca | ccaaggagcc | caggtcctctn | ccataacctga | cctcaattaa  | acttaactta | 480 |
| cccaggagcc | aaggtccctc | cattacntn   | anttaccaac  | aatcaagtnn  | ccttcanacc | 540 |
| ttatcttaat | tan        |             |             |             |            | 553 |

<210> 10069

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10069

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| caagtttagg  | gatgtgctct | atatttgcat | ttttcttttt | aaaaggcaca | gtttttattt  | 60  |
| taacgacgct  | gcattgctct | ttgatgatga | atctcaatto | gactcctcaa | actgtcaaca  | 120 |
| ctcttggtat  | cctagattct | agaagggggc | tcattctttg | acttctttct | atagagggcc  | 180 |
| acatctaaag  | ctacagcact | catttggaag | aggacactgg | gatcaacacg | taagcgttgc  | 240 |
| aagcacaggg  | gccgcctctc | ttgcagacag | gtggccaaag | cagggttctg | gctggggccag | 300 |
| aagtgggaagt | aattcctcgc | cagctacaca | ttcagtctga | ctggtggatg | attgggagtg  | 360 |
| tttgtccctc  | cctcccccaa | taattgatgg | ccttgagatc | tgccagcatc | tcaaaggcag  | 420 |
| attcgtggct  | ctgttcccag | acttaggtct | cagttattta | attggtaaat | gacacaatca  | 480 |
| aagagactca  | acacttaatt | gggaatgctg | attcaagtat | ttcctgggct | aactngtgga  | 540 |
| agccataaat  | tgg        |            |            |            |             | 553 |

<210> 10070

<211> 504

<212> DNA

09629469.072300

<213> Homo sapiens

<400> 10070

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| gaatggaaga  | tattgcaaca | ctgggcccac | agattttagc  | aatagcaaca | tttgcaggga | 60  |
| gctggtttagc | agttgccctc | atctgatagc | acatgcattt  | tctagctccc | tcaagttctc | 120 |
| tctgctcact  | ttggtacctg | cctggctttt | atagacatca  | gagtttgaaa | tctttttgtt | 180 |
| tgtttgtttg  | tttgagacag | ggtctcactc | tgttgcatag  | gctggagtgt | agcggcctga | 240 |
| tcacggttca  | ctgcagcctc | tacctcccag | gctcccagaga | tcctcccacc | tcagcctccc | 300 |
| acctagctgg  | gaccacagcc | atccaccacc | atacccagct  | aactttttgt | attttttgta | 360 |
| aagaccatgt  | ttcgtcatgt | tgctcaagnt | ggtctogaac  | tcctgagctc | aagcgatctg | 420 |
| cccacctggg  | cctcccaaag | tgctgggatt | acaggcgtga  | cccactgngc | atgacctgaa | 480 |
| atnnttattt  | nattngnnaa | cttt       |             |            |            | 504 |

<210> 10071

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10071

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| gttgctttcc | cagactttta  | tttgaaatgt  | gactgctttg | taaaactcca  | gagtcaagga | 60  |
| ctcataggca | ggaggatgtc  | ataaattaac  | aggaaaggat | gagaaatctc  | cactccactc | 120 |
| cctcctccct | cccttgatca  | ctcattccct  | ctcttacatt | cattaaccac  | ccactacatg | 180 |
| ccatgcccta | aggaagcagc  | tatctaagaa  | gtccctgcct | gcaggggctt  | tacagaccag | 240 |
| gaggaaggca | acccatagag  | ccaggatcct  | gataaccact | gctgactgcc  | cctctgccta | 300 |
| ggcaccagct | aagggtggctc | caaaaagtga  | ggccttgntg | ggaaggggaa  | aaacagcaaa | 360 |
| ggtcagcttg | gatgaaccca  | tccagaattt  | tgcaatcaga | aataacctana | aaagaattat | 420 |
| tttagaagaa | caggggggatg | ccaggggcttg | gggatgagga | atgatgtttt  | cagtgcctaa | 480 |
| ggcccctgaa | ngtcttggtc  | tttctgtctc  | aaaacgcaag | gggggtccca  | ggttgccctt | 540 |
| tcanagcttg | cctttaatnc  | tggcanttc   |            |             |            | 569 |

<210> 10072

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10072

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cactgctttt  | cctttattga  | taggtcagag | agcatttcct | ggcaccoccca | gggtacagcc | 60  |
| ccctgactcc  | tgctacccaa  | gaaggccacc | ctttcctgcc | tgtgatactc  | cgtggcatct | 120 |
| gttctgccag  | aggactgacc  | ctttgtgctc | cacatatgtt | ttgccaggaa  | acacttatct | 180 |
| cagccacaaa  | ccgtccctgt  | cctccaaaag | actcagagct | gottacaagg  | ggctgctttg | 240 |
| gtcagtcagc  | tgttagtcc   | ggggctcttg | cctcctctgt | gggggtagca  | tcagtcaccc | 300 |
| taaagtcttc  | aggccgccgc  | tagctagtga | gttacaagat | tttagaaaacc | agctcttgct | 360 |
| cacagatcct  | caggccccctg | gttcttggat | ccagaggcgt | ctgaggtagt  | ttcacaggca | 420 |
| cctgctgctg  | ctgctgctgc  | ctctgctctt | gccctcagtc | cccgtctttc  | cacctgggtc | 480 |
| cccttgcaact | ttcatgcctg  | angctgactg | gtggccaagt | ctaaaactgag | ggncttcggg | 540 |
| anaccgagaa  | cccgccgaac  | ngccttggan |            |             |            | 570 |

<210> 10073

<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 10073

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cttctgagac | agagtcactg | tcgccccggc  | tagagtgcag | tggcgtgac  | tcagctcact | 60  |
| gcaacctcca | cctcccgggt | tcaagtgatt  | ctcctgcttc | agcctcccaa | gtagctggga | 120 |
| ttacaggtgc | ccaccaccac | accagctaa   | tttttgatt  | tttagtagag | acggggtttc | 180 |
| accatgttgg | ccaggctagt | ctcgaactoc  | tgacctcagg | tgatccaccc | gccttaacct | 240 |
| cccaaagtgc | tgggattata | ggcgtgagcc  | actgcaccca | gctggaaaat | acttcttaaa | 300 |
| tgcaatttat | aagcatgtgt | attagtttcc  | tattgctggg | ataacaaatt | actacaaact | 360 |
| tagtggctta | aaacaacaca | gatgtgttgt  | cttacagttc | tagaggttag | ttctaaatag | 420 |
| gtctcactga | gctaaatcca | cgggtgtcagc | agagctgtgt | tctttcctag | agcttctagg | 480 |
| ggagaatctg | gtttcctggc | tttttcacag  | atctagcaat | ggcacttctc | tttggcttgg | 540 |
| gancttggtc | catnttaaat | tcat        |            |            |            | 564 |

<210> 10074  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 10074

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| aacaagtaaa | tcattggcct | tattctgggt  | cctggaagct  | ccactgtgag  | tctgaaaaaa | 60  |
| agacagaaca | ggggcggcag | ccctgggggg  | tgggtgcagaa | aatagtcctt  | ggctcctctg | 120 |
| gccctgggag | cctaaagggc | agttagggaga | aggcttagca  | agaggcctgg  | agcaggggaa | 180 |
| gtcaggtccc | tcaggaaccc | ctcctcccc   | agaggaagga  | ggaagagggc  | tggagagtct | 240 |
| gctggagagt | ctgctcagtt | cctcagcaac  | tgcactgcag  | gagggtgcag  | gccatgggtt | 300 |
| actccttgcc | cttctcaggg | gcagtgggct  | cccagagcca  | cttggttagtc | cccaggggct | 360 |
| cagtcaccag | gtccagccgt | gactccocta  | agggcccttc  | gccctccaag  | tccagctcct | 420 |
| caaaagagga | gcccgtctgc | gcctgactcg  | ctgtagctgt  | gctcgtctgc  | ggtgtcaccg | 480 |
| tcacccagc  | cacngctgna | cgcctcagtg  | acagtgtggc  | aacttgaagt  | cttcccgggt | 540 |
| gcaaggctta | ctttcagctt | acagaactcg  | ggtn        |             |            | 574 |

<210> 10075  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10075

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| agaaaaataaa | aactttat   | ttttcaagtt | tataagatag | ttcccattac | atataacatt | 60  |
| acggctcacgg | attctacagc | cacaaatgcc | cgcagtcaca | taaatatatc | caatccaatc | 120 |
| aatgcctttt  | cctgctaaca | gaggcatctg | aagttcagag | ggagagtgcg | attttaagta | 180 |
| aaagtcgtcc  | ttaatgggag | ggctcctgtc | agtgcattag | gaactagcca | aggagccttg | 240 |
| cttgccagag  | ctgtctgact | cagaggagag | gaagggacag | atggcctgct | gactggggct | 300 |
| gaggcagaac  | tagattttct | ctcttggtgt | ttaagatatt | ttagaatctc | ggaattcaga | 360 |
| tcctatagtg  | ggaatatctg | gggagttcta | acttctggat | gaaaaaggaa | accaatttag | 420 |
| tggttaagaaa | tagaagcctg | cttaagaggg | accctaactg | cctccttgag | gagtaaggag | 480 |
| tcagaggaag  | accctaagct | naccattcct | tggncacaac | attgntntac | cccatacttc | 540 |

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tttccctggg ggtg

554

<210> 10076

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10076

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| cttttttatt | tgagacggcg | tctcactctg | tcacccaggc | tagagtgcag  | tggtgcgac  | 60  |
| tcggctcact | gccagctcca | cctcccgggt | tcacgccatt | ctcctgcctc  | agcctcctga | 120 |
| gtagctggga | ctacagggat | ccaccaccat | gcccggtata | ttttttgtat  | tttttttagt | 180 |
| agagacgggg | tttactgcg  | ttagccagga | tggtcctgat | ctcctgacct  | cgtgatccgc | 240 |
| ccgcctcggc | ctcccaaagt | gctgggataa | caggcgtgag | ccaccgcgcc  | cggccacat  | 300 |
| tggtctttc  | tatgcaccca | gttggtatgg | caatttacct | atacctggca  | gacaaaaagg | 360 |
| aagataactt | ggggcctcgc | agctgtgcgc | accccatgga | aaccaccaca  | cagcattttt | 420 |
| ttttttttt  | ggagacagag | tctcgttctg | ttactcaggc | tgagtgcaa   | tggtgtgatc | 480 |
| tcggntactg | naagctccac | ctnctangtt | caagcgattc | tncctggccta | ncctcctang | 540 |

<210> 10077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10077

|             |             |             |             |             |             |     |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| cacctaagtc  | tttatttatt  | tggtctctagg | aagaatttgc  | atgaaaatga  | gcctgtatgg  | 60  |
| caggtagaca  | atgtactgta  | acagcaccag  | agaggtacat  | cctctctcct  | ctacagagcc  | 120 |
| tcaatgttta  | atacatatcat | gtgacttttag | tcataaaaacc | acatagtcca  | ggaaaaaagg  | 180 |
| agcccttttag | aaaaaaaaaa  | tcagttttaga | atgacttttca | aattgaccat  | tcctttttcaa | 240 |
| atacttaaat  | tcaaataaca  | gatacattca  | gaggcccaaa  | tggttgccata | gaataaaatc  | 300 |
| atgttcattt  | atttttttct  | gcactcttaga | attagaaggc  | ataaaattaa  | atatgttgaa  | 360 |
| tgtaataaat  | tcatccatac  | aagtgcaggt  | ctccagatat  | aatgcatttt  | atggcagatt  | 420 |
| tattatttta  | aaaatgtnc   | agtaaatcaa  | aaaaagaggg  | agtatgncca  | tttaactttt  | 480 |
| aatggaagng  | atgtaggagg  | cttcagaaat  | caaatgngag  | ontgaaaatt  | ggccaacctt  | 540 |
| aaaactttca  | aatctgggna  | aagtg       |             |             |             | 565 |

<210> 10078

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10078

|            |             |             |             |            |             |     |
|------------|-------------|-------------|-------------|------------|-------------|-----|
| gtagagacag | ggtctcgccta | tggtgcctag  | ggtggtctca  | aattcctggg | ctcaagtgat  | 60  |
| cttctcacct | cagcctccca  | aagtgcctggg | attataggca  | tgagccactg | cacctggctg  | 120 |
| agatgaaagg | tcttactcac  | ttttcctggc  | tcctttactcc | tggtgtggca | ctatacaaaag | 180 |
| ccatgacgtg | gaaactgagt  | cacatacctc  | ctagttgggc  | cactcaaaat | aactcagatt  | 240 |
| gccatccacc | catctttttg  | gaaacgtaag  | tttccactaa  | atgttctatg | tgggcacaga  | 300 |
| ccagtacaga | gggaaacagg  | ttataattag  | ggagagctgt  | tgctcttgga | accttctgga  | 360 |
| ttttaatggc | cccgagaaat  | caagtcaaaa  | caggcttcat  | gctgttgctg | acttgccagc  | 420 |

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cattgctgac ctaaaaatag angaaggggc cataaaccaa tntacatang tggcctntaa 480  
cagctggaaa angcnaaan 499

<210> 10079  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10079  
agatggagtc tcaactctgtc gcccaggctg gagtgcagtg gcacaatctt ggctcactgc 60  
aacctctgcc tgccaggttc aagcgatttt cctgcctcgg cctcctgagt agctgggatt 120  
acagggtgtg gccaccacac cgggctaatt ttgtatttt tagtagagac ggggtttcac 180  
catgttggtc aggctggtct caaactcccg acctcgtgat ccgcccgcct tggccttcca 240  
aagtgcaggga attacaggga tgagccactg tgccggggcca aagcagaatt taaatcagca 300  
attgggatac aatattagt cagataattt acactagagt catatttata tctgncacag 360  
tattaaagta taccacatat gtatggactg ntagaagaaa ttcatttcat ttttaaaagc 420  
aatggattgg ttaataaggt taagttcttt aacactttct ttaaaaattcc tggcaagggt 480  
aacttccatt ggcnttttta aatngaaaaa ccnaaccnaa ccaaacttaa accccaagcc 540  
acnccccaaa atggttaagtt t 561

<210> 10080  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10080  
ggtgacagag tctcgctttg tcgcccaggc tggagtgcag tgggtgcaatc tcggctcact 60  
gcaacctctg cctcctgagt tcaagcaatt ctcttgccct agcctcccca gtagctggga 120  
ctacaggcgc ccgccaccat gccagctaa ttttttgtat tttgggtggag acgggggttc 180  
atcgtgttgc ctaggctggt ctcaagctcc tgagctcagg caatctgccc acctcggcct 240  
cccaaagtgc taggattaca ggcatgagcc accatgcccg ggcccccttc ctttgatttt 300  
aataacactt agagtaatgt agtgttcttg atccagaaga ttacttctgg aacaattagt 360  
gaccaacaac cacccttata cttgacataa aactgagcag gtttagggac aganggaant 420  
gtgaagttca ccagctnttt cacactgngc ttataagaac caaatctggc caatgtgacc 480  
tgacacactt acctgggcaa ggatcttatn aagangnttc cagaataact tcccgaact 540  
tntntgggac tggtaa 556

<210> 10081  
<211> 421  
<212> DNA  
<213> Homo sapiens

<400> 10081  
aaatttgagt cagggtctca ctctgtggcc caggctggag tgcaatgggt cgatcacggc 60  
tcaactgcagc cttgactttc tgggttcaag gagtcctcct gottcaacct cccaagtggc 120  
taggaccaca ggcgtgcaac accacaccca gctaccact catttttttg ttgaatgaac 180  
agcttaaat cttgttctga cccaagagcc ttgcaactgc ctcttcctcc tgcctgctta 240  
tccccaggt atccacctgt tccctccctc atttccttca attttatatt tttctgcaat 300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggggcctttc | ctgactacca | cttaaaattg | cttgcttggg | tacaatggct | cacgcctgta | 360 |
| atcccagcac | tttgggaagg | tgaagtgggt | ggatcacctg | aggncangan | ttnnanacca | 420 |
| n          |            |            |            |            |            | 421 |

<210> 10082

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10082

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| acggtaggta | ataagattta | ctgaaaacgt | ctcggccaca | ttcagtactg | gtttggtgga  | 60  |
| tacatcagaa | ggaggttgca | taacattagg | caggtggagg | ggctgagagg | aagagatgtg  | 120 |
| ggcacctgtg | tgccagtgtg | tccgtgctgg | gggacgcctg | tccaggtggt | gagtggaaacg | 180 |
| gtgtgtgtgt | gtgtctgtgt | gcgcgtgtta | acaagaaaaa | cgaaccagaa | aaggaagtgc  | 240 |
| attttatccc | actgcacatt | gcaaaagtct | cacgccaaaa | aagctagact | ttcctctatg  | 300 |
| tatggcatca | aaagggagta | aaaaatgatt | ggatcaccca | gattataaat | aagggtatgtt | 360 |
| gnttctcaaa | aatccttatt | aaaacattaa | atatcancct | ttttgggggg | agaaatacat  | 420 |
| tcatttcagg | gagacctcgg | aagaatggnc | catncntttg | nttntacccc | aaccagtggg  | 480 |
| ggaaggggaa | nccccaaaag | ggcccaangg | ggtccctcca | gttga      |             | 525 |

<210> 10083

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10083

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| acaattgtta | acatggcaac | ctttaaagcc | agctcttaaa | taccaagacc | ttgaacttga  | 60  |
| tgcattccac | atttctcctc | tgcccagaag | gcagatggga | gaataattca | ccaaagttta  | 120 |
| gacacaggta | aattgagggg | agggtttctt | ttttcttttt | gtttttttga | gccaaagtcac | 180 |
| gctcctgaaa | aaaaatgctt | actgaggaaa | ataaacacct | cgagctcaag | cagctctcag  | 240 |
| gagtatgtag | tccctgccct | gaggccactt | atcatctagt | ttgagaagag | acaggtacaa  | 300 |
| aaatagctca | aacatcaggt | gccagcagtt | caggggaggg | atctgaaaag | gcagcaaggc  | 360 |
| actaaatcag | caccccaacc | tggttttttg | tttgnntttc | taaacctgcc | agcaccaact  | 420 |
| cttcatcacc | ttgcaaattc | aagaccatct | ttggaaaaga | cagttaggac | tgacttgcaa  | 480 |
| tggctttggg | aatcttacc  | accccatgg  | ntggttttct | anggcctngg | gncaanggct  | 540 |
| cctttaaaaa | gg         |            |            |            |             | 552 |

<210> 10084

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10084

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gttattatag | gcatttatta | ctaactatag | tccttcttgg | aaggaacacc | caaaccaata | 60  |
| cttataaagt | acatgtaatt | tatagtaaca | tattttacta | tatacatatg | gaaaaaatca | 120 |
| tattctcaca | gaagagctga | acagacattc | accaggatac | gactgttggg | ccagctgctg | 180 |
| gagatggacc | tgctacccct | cagcagcctc | cccaccacaa | gacaagtgat | ctcaatgtcc | 240 |
| ccaaacctgt | gggaccctgt | tctacacacc | tcatttttgt | tccggcggtt | catcctcctt | 300 |

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| gtgtgattgt | actgattttc  | atgagacaca  | agttacttct | ttacatccat | attcccaaag | 360 |
| cagggttaca | tggtaggaaa  | gaaaggaaat  | tgagggtact | aagctcattg | ggncctctct | 420 |
| agcttttacc | agcatctaata | gcttcactgn  | tttttttcca | ttggagactt | taatggcact | 480 |
| tggataaata | catggagggtg | gtttttttcct | caaaatggan | taccccaatt | aagactggga | 540 |
| agggcccaaa | aaa         |             |            |            |            | 553 |

<210> 10085

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10085

|             |            |             |             |            |             |     |
|-------------|------------|-------------|-------------|------------|-------------|-----|
| gtagagatgg  | ggtttagcca | tgttgcccag  | gctgggtctca | aactcttagg | ctcaaacgac  | 60  |
| ccaccacact  | tggcctccca | aagtgtctggg | attacaggca  | tgaaccattg | ngcctggtct  | 120 |
| tggtaaaatct | tttgaacttg | cagtttagcc  | aatcctgaac  | tgtaaatgta | agaacaacag  | 180 |
| atgtggttta  | ttactgngca | taccgcacct  | tgttcagcca  | gaagatattc | cagggcaaata | 240 |
| ctgttatcca  | agacagcatt | ggctagggag  | tgcagggagg  | cttgatgtcc | ttttatggct  | 300 |
| ctgcctgtac  | tagttgccag | tgtttcaagg  | gtttgaaagt  | ttctcaaagc | tggttgacag  | 360 |
| tatgcaaaag  | ccattccaag | gggctatttc  | aacttctggc  | caaaatagnc | ctattggctt  | 420 |
| ttagaattta  | ccccatgnn  | gaaattatga  | actggntatt  | ctactgggac | cttaaagtnc  | 480 |
| ctaaacaagg  | catttcctta | tgggggtggac | catnttccc   | cccaangggc | ncccttttgg  | 540 |
| caagtaaat   |            |             |             |            |             | 549 |

<210> 10086

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10086

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| ggtgttttta  | gtagagattg | ggtttcacca  | tgttggccag | gctgggtctcg | aactcgtgac | 60  |
| ctcagggtgat | tcaccacatt | cagcctccca  | aagttttggg | attacaggcg  | tgagcaacca | 120 |
| cgccgggcct  | gcctgcttag | tttctggctg  | tcacttagct | ttgcaaggct  | gggagcagca | 180 |
| ctccaggagg  | cagaggaagg | gaacacatgt  | tcagactggg | gaataccata  | ctaagtgtac | 240 |
| agacatacat  | ttggacactg | tcctgaaaga  | catcatacaa | acatggaagc  | tcttgaacaa | 300 |
| aggtcctccc  | ttgccccaac | ccccaggcag  | ccctcacgtc | cttccagtct  | ttgttttgct | 360 |
| gcctgatgga  | gaagcagaga | tttggggcgt  | ggggctggag | gaacagccag  | tgccacttgt | 420 |
| tcctctgaag  | caagtggnc  | taaaaccacc  | ttntggcctt | cccagctact  | tgggcatgct | 480 |
| tntaccaagg  | tgtnaaggct | naatggggccc | ggggccactt | aattgggcaa  | gggttgnnt  | 540 |
| tanggaaaa   |            |             |            |             |            | 549 |

<210> 10087

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10087

|            |            |             |            |             |             |     |
|------------|------------|-------------|------------|-------------|-------------|-----|
| caatggcaac | acagatttat | tgggagaaaag | acctgcggag | aggggggtacc | agctagtgcc  | 60  |
| agagccccct | tcccgcttac | aggctggacc  | agttacagtc | cggggcagga  | gaggctctggg | 120 |



|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| attgttgtga  | aaatggggtg | ggggcgggtg  | gtttggctgc | tgataatgaa | ggaatttagt | 180 |
| gcagccaggg  | gttaggcctg | ggacctgcct  | gacaggatgt | ttctcacagc | tcaggccctg | 240 |
| gtggaatttt  | ccactctgac | cagtttgtaa  | aatggtaggg | gtctgcaaaa | tagtgacgtt | 300 |
| tgggctaaca  | ttcttatttc | ttacttttagt | ataaaaagga | aaaagggccg | tcgttgatca | 360 |
| tctggctgct  | tcctgctgga | tagggggcct  | tgtgattagg | gcctgggttc | tggagcttcc | 420 |
| gaatggtttc  | ctcgaagctt | tggattataa  | cctggcaaaa | ggtgaaatat | attatcaatg | 480 |
| ggttttgcat  | gcttgccctg | attaaacaan  | ttaacccttt | gggaaatgaa | accgggatcc | 540 |
| aaggttaaatt | t          |             |            |            |            | 551 |

<210> 10088

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10088

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| caaagctacc | ctggaacggt | aatacaataa  | aactagtacc | tgtgcataaa  | ttgttaactg | 60  |
| acctgccag  | catgggtacc | taactgggggt | ttagggtagg | gggacagagg  | gctttttaag | 120 |
| attggtggtg | ggggatgggg | attaatacag  | acagctcggg | taggggtccac | tcctgggttc | 180 |
| agggtgcagg | ttgctggact | tggagcatgg  | gatgaagaga | tgttcagaga  | tagagatcat | 240 |
| taggttgctg | aactccccta | gggcagtgga  | gtgaaaaagc | tgtagcanc   | aaggcagggt | 300 |
| gtagatccct | ggaggctgac | ggcttgggggt | ggggccacag | tgagcccagc  | ccctgatggc | 360 |
| tctagttctt | gcccttgcag | agctcanaaa  | tggagggtgg | tcctgtgcct  | tgtccaacaa | 420 |
| tggttccctt | gaaaaagaac | ccataaggat  | cccccaatcc | accccaatgn  | ggttcttggg | 480 |
| ggtaatggag | ataatctccc | cacagtgggg  | tgancttggg | gtnaagggaa  | cctggcttct | 540 |
| tggaatggna | acc        |             |            |             |            | 553 |

<210> 10089

<211> 490

<212> DNA

<213> Homo sapiens

<400> 10089

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacaaggc | ctggctctgt | cgcccaggct | ggagtgcagt | ggcgtgatct | cagcttactg | 60  |
| aaacctctgc | ctcctgggct | ccagccatcc | cccaacctca | gcctcccaag | tagctgagag | 120 |
| tacaggcatg | caaccacacc | tggctaattt | ttgtattttt | gtagagatgg | ggttttgcca | 180 |
| tgatgccag  | gctggtctca | agctcctgag | ctcaagtgat | cctctcgcct | tggcttccca | 240 |
| aactgcttgg | attacaggca | tgtgccacca | catccggcct | aaaagttttt | aagagtaata | 300 |
| agcaaaggta | gatgtgtatg | tgtgtgatac | tgtcatgggt | acatttgtcc | aaacctatag | 360 |
| aatgtgccaa | gagtgaacac | tgtggactct | ggttgatggg | gatggatcaa | tgcagtttca | 420 |
| acaactgtga | cacatncacc | cctntggagc | gagangtctg | cantggggan | gctatatggg | 480 |
| natngggggg |            |            |            |            |            | 490 |

<210> 10090

<211> 470

<212> DNA

<213> Homo sapiens

<400> 10090

09629469.072800

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ataaataaga  | aatagggttt | attgagaaag | ttcggcaagc | agagaaacag | aacagacaca | 60  |
| caacccccctg | ctgttcacag | ctcaggccta | agatggttgt | gttctgtggc | caggccccct | 120 |
| aaggctctgt  | gctttcatag | gaactggaga | gcaattgtca | acaagggaaa | ctgaaagaat | 180 |
| ggccttcaga  | actctggctg | acggcagcct | gttcttttgt | taagctaatt | tagacctttg | 240 |
| ttcagctacc  | aggagagaaa | attagggtgt | ggagccctgg | tcccaagctc | tggtcttaaa | 300 |
| acaccatcat  | cctgctttac | ctctacaacc | atcccacggn | cctattatat | ggatgagggt | 360 |
| aaagaaacac  | gtncangcg  | ggtcattccc | cttcagtgt  | tatcacctan | ttgagggtac | 420 |
| caaacanggc  | cacctgcaa  | anctaaggac | caggaccagg | ccanccang  |            | 470 |

<210> 10091

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10091

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| agttaagaaa | cagaacacct | tttgtttaag  | caactaaatt | aacacgtgat | ggttcttggc | 60  |
| aagatcccat | ccatgacagc | attcccgtcc  | accaatcttt | tccgaaagtc | tggagcttac | 120 |
| tggacgtagt | gtaatggcaa | ctcctcccac  | taaaaggccc | cgtcaggctg | ggcacagcgg | 180 |
| ctcatgcttc | taatcccaac | actttgggag  | gccaagacag | gaggatgctt | gaccccagga | 240 |
| gttcaagacc | agtcttggca | atgttagcaag | accccaactc | tataattttt | tttttttttt | 300 |
| tgagacggag | tctcgctctg | tctcccaggc  | tggagtgcag | tgggtgcgat | ctcggctcac | 360 |
| tgcaagctcc | acctcccagg | ttcacaccat  | tctcctgcct | cagcctcctg | agtagttggg | 420 |
| accacaggcg | cccaccacca | cgcccggnta  | cttttttggg | tttttaagta | nagacagggg | 480 |
| ttactggggg | tanccnggaa | tggnccttna  |            |            |            | 509 |

<210> 10092

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10092

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| aaagctttta  | aatttcagtt | accagctcca | atgaaaaaag | aaatccagtc | tagaacagcc | 60  |
| actctgaaag  | ccaaaacaaa | aagagctcca | aaaaactgtt | gagcaaagtt | aagtgccttt | 120 |
| tcggaagcaa  | atctcgggat | ttcgaaagcc | tggctttgtt | tttctctgtg | tgaaaaata  | 180 |
| ttccagattg  | taacatgccg | tcgcttcaag | gagtttttag | cagcttcctt | gatacatgaa | 240 |
| aatcttggtc  | tctgaaagct | tcagggtgtg | tcttcccaga | attggtttca | ctatgtgtga | 300 |
| tgccctcgct  | ttcttccttt | gggcttggtt | gttccctcat | cattaggtgt | gagatgtgtt | 360 |
| atztatagat  | gcttcgactc | ctgggatggc | tctttgaaca | cagccctgcc | atgtcaatgc | 420 |
| acagaaaagcc | ccgatttggt | tctgaccggt | cttgataatc | ttaccnggca | cagctttcct | 480 |
| anggttaatt  | tgcaattaat | taatttagng | acaggncctc | tgggttgcca | acctggctg  | 539 |

<210> 10093

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10093

|            |            |            |           |           |            |    |
|------------|------------|------------|-----------|-----------|------------|----|
| ggttttctct | ttgaaagttt | attgttttct | ttaaaaaaa | aaaaaacct | atacctttta | 60 |
|------------|------------|------------|-----------|-----------|------------|----|

09629469.072300

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| tatattacat | tcacctctca  | gaatatttaa  | tggtacccgt | taacgatgtt | ataaaaaaag | 120 |
| accatcacct | gcttgaaatg  | gctgcaaatt  | taccatgttc | tggcattaaa | gtgatttcaa | 180 |
| ctctttggac | aaatttggtgt | aacagtaagc  | accgagattt | caaattccca | gatgagaaaa | 240 |
| aaaaaattaa | tcaggaggaa  | atttatattag | taaaaattca | aagctaaaga | aatgtgagaa | 300 |
| ggaagccaaa | cccaaaaaac  | tgtaaaaaat  | acaatcttct | ctccagaatt | aggttaaaaa | 360 |
| atacagtcaa | ccccattcta  | aaccccatat  | ttcttagaaa | agtcacccag | tcctgaacac | 420 |
| agggtcttat | acacaaatac  | atgtagcttg  | atttgcagat | cagcctctgg | gatccgacct | 480 |
| tacctggccc | caattagaag  | tcaaaaaacca | aaatttaggt | aggnaggcag | acctntatta | 540 |
| aactcagnat | cccgtnn     |             |            |            |            | 557 |

<210> 10094

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10094

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| actcttactt | ggttttaata | atacagttag  | gatgggttgc  | caggctctggc | attgggccta | 60  |
| gatgcccagg | catcgtggag | tgccctccgtg | gtcactgggc  | acaggccacc  | agctcctcca | 120 |
| gggcttgctc | tcggcgggtg | ccatggacca  | gcagcacctc  | cttgatccgg  | tcctgctgga | 180 |
| agcccatgtc | actgaactgc | tcccagaggc  | gcaggaaactc | ccctgcctga  | ggaagaggag | 240 |
| acaggaggag | tgctgggggc | tctgctgggc  | ctggcctcaa  | ccatggggag  | ccccagctcc | 300 |
| agtgcctact | gcacctagtc | ccaaaaagct  | gtggctaccc  | ccaggccacg  | tgagcctgat | 360 |
| cctgggccgc | acctgccact | tttctgtacc  | tgtaggggtga | tgtaggttcc  | gacctccctt | 420 |
| cctctgccaa | ggaaagaagg | ccccancctg  | gccatgggct  | ctgcctgact  | cttcttccac | 480 |
| ttcttccact | nactggcaac | tttntgctgg  | ggcaagaagg  | ggggcaaaac  | cgncaccttg | 540 |
| acctggagga | caaaannt   |             |             |             |            | 558 |

<210> 10095

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10095

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| gtagagacag | ggttttgcca | tggtgtcgtc | caggctgggtc | tcgaactcct | aggctcaggc  | 60  |
| aatcctcctg | cttcagcctc | ccanagtgtc | gggattataa  | gcatgagcca | ccatgcctgg  | 120 |
| cctcagtagg | ggattcttaa | agaagacaca | tatgcagtga  | gtggcttgga | ttttgaaaga  | 180 |
| ggtgtgtgtg | aaggccaggg | gtggtggccc | actccctctc  | tgngtgccca | ctttcattca  | 240 |
| naaccatccc | atttatgtgt | cttttctacc | agtatctcta  | caaatcatct | ttccatttag  | 300 |
| cagccttttc | tagggggtca | catagccacc | ccnacataa   | agaatgaggc | tgnggggtcac | 360 |
| agacaagaca | caacaatgta | gcccacatcc | cgataaaaaa  | gtgttgggca | agcacangcc  | 420 |
| ttacactgga | atcagaacaa | ngggggaagg | attcaactta  | ctctgggaac | agaccgacnn  | 480 |
| ggatgaccca | tcttgcatto | cttttttttg | anggananaag | ncntgaggct | tcctttggct  | 540 |
| ggnaaaaaaa | ttacttgg   |            |             |            |             | 558 |

<210> 10096

<211> 561

<212> DNA

<213> Homo sapiens

09629469.02300

<400> 10096

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| agtagagacg  | gggtttcacc | atgttgggtca | gggctggcct | cgaacccctg | acctcagatg | 60  |
| atcagcccac  | ctcggcctcc | caaagtgtctg | ggattacagg | agtgagccac | cacgcccgga | 120 |
| tttttttttt  | tttttttttt | taacagacca  | aagcgttaag | agtccccaaa | ggagggaagc | 180 |
| caccctgcaa  | tggaatggca | gaaccaggat  | gggtgaacct | gaagtctcag | gtgtcaagac | 240 |
| atcggcacac  | agacagcttg | gtctctccta  | cgcacaagca | catntgtggc | cctgctgcac | 300 |
| atatgggcan  | agggtggctg | gcaccgtcct  | gccttcggca | tgttccaaca | tncccacagg | 360 |
| accctatacc  | tggaagcccc | tacatcattt  | actgggtttt | gtgacaanat | ggagacccaa | 420 |
| tagagtittcc | taagagggag | aaagagtcca  | cagaacccca | ccctnaattc | agggnctntt | 480 |
| ggaccggtcc  | taacttgggg | cattgccagg  | ccaggggctg | nacccttttt | tcccanagt  | 540 |
| cctggcacia  | gccaaaaccg | t           |            |            |            | 561 |

<210> 10097

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10097

|             |             |            |             |             |            |     |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| caaaacaagt  | gttattttatt | ataaaatcag | nggcttctga  | ttagaagaact | tttttttttt | 60  |
| aaaccaaaata | ggctcaagaa  | gctggctgga | ggttgaattg  | gotgacgaac  | atcttcttcc | 120 |
| tccaccagca  | gtttgnggga  | cacatcacgt | ttctgccaaag | tgctacagct  | gaagcccata | 180 |
| ttcatagaag  | caccctgaca  | gcccttctcc | agcaacttcc  | agaaaacaga  | acctgagcac | 240 |
| tcaaagctgc  | atcagcccat  | gtggccttgc | tcccaaanaa  | gcatntggcn  | atttgggcat | 300 |
| gggggaacca  | aaagtgggca  | gggaattctc | cttggctcct  | taaaagggca  | tgggagccca | 360 |
| gggaaaccgt  | tcggccccag  | tgcagccnta | ttgggaagga  | nggatnggna  | aaaggctgct | 420 |
| nggctttttc  | cttcctnacc  | ctatggnaag | ggggactggc  | ccttttggttc | ctt        | 473 |

<210> 10098

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10098

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ganacagggt | ttcactcttg | tcacccaggc | tggagtgcag | nggcacgato | ttggcttact  | 60  |
| ggaacctccg | ccttccaggt | tcaagcgatt | ctcctgcctc | agcctcccga | gcagctggca  | 120 |
| ttacaggcgc | ctgccaccac | gccagctaa  | tttttgtatt | tttagtanan | acagggtttc  | 180 |
| accatattgg | ccaggctagt | ctcaaactcc | tgacctcaag | ttatccgccc | accttggcct  | 240 |
| cccaaagtgc | tgggatcaca | ggcgtgatcc | atngngcccg | ggccacgtct | cttcctttca  | 300 |
| atgtaggatg | tcactcatga | gcatcaattc | ttcactgcat | taaggaatgt | gtgatttttag | 360 |
| aaagtgcctg | agtatagaat | tgtgagggtg | tggcctatgt | cttangcctt | ggagaaaactc | 420 |
| anctagcana | gaanaatgga | naaagngggc | ataacgttat | gattgctcaa | aactaaatgc  | 480 |
| ngataatatg | accttgaacc | tgggaagcnc | aaaagcc    |            |             | 517 |

<210> 10099

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10099

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| ataacagaaa | aatatttatg | taatgatggc | agctgcaaat  | tgattgggat | gttaataaat  | 60  |
| aaaaaggaac | aagtatcaac | tagctgcaaa | tgaggaagaa  | accaacctac | ctgaaaacta  | 120 |
| caaccaaatt | ctcatggcta | ataagtgatg | gcagtggagac | catggcccta | atggaagtta  | 180 |
| gggcagcctc | accactgaa  | atgttgttta | gttgaggctg  | atagcctcag | tgtagataa   | 240 |
| aaattgtgca | acacctgagc | aacaaatttt | tttttttttt  | ttttggaaat | tggtcatgtat | 300 |
| tctgcaaaga | cttgttttag | gccagtttta | cccatctgc   | taaacgcaat | gcatagtctg  | 360 |
| tatcaaccag | aagaacccat | ctctaaaaac | atcaatgttg  | atagtcaaag | accactgtgt  | 420 |
| tagaacccaa | aatcagggtc | tggatgatta | cctacattag  | acagagcaat | ggtggcacan  | 480 |
| gcttgagcat | gacaatggct | catatgggtg | acncaaaagt  | aaccaattct | nggtgcnttc  | 540 |
| aggaggaatg | cctgct     |            |             |            |             | 556 |

<210> 10100

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10100

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gacagtttca | acatggcttt  | actctctctc | tgggcacaag | cgagccatat | gtgcagcatc | 60  |
| agcaaggat  | acctttttaca | gacaatagtg | gctctgagcc | aaacacgagc | tcatgtgagt | 120 |
| tgttacctaa | tgggcctcat  | gtggtgtggt | tacataacga | gcaagggtgt | gtgcttgcac | 180 |
| tccaaaccca | ctgagtcag   | ctgcaccaga | aggctgcctc | agcctactcc | tgactaaagc | 240 |
| acagccattt | cccttacact  | acaccccta  | ggctgagggc | gtcctccagg | cagggacaca | 300 |
| tgcctatatg | gcggagccct  | gagtcataa  | cccacaacaa | caatacagag | agcaacagct | 360 |
| cactactagg | atctcagcta  | tgatacttat | gactattagg | gccaatgta  | cgccagaacc | 420 |
| tagggatgct | caccatctnt  | gcaaggggtt | gacagtgang | cttttcagtc | accttaatct | 480 |
| nctggaanac | ccttttgaag  | gctggttgta | tggtctgctg | aatgncangg | ataang     | 536 |

<210> 10101

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10101

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| cattttgcaa  | atttaatgta | actctgatac | caaaatatga  | cagcacacag  | aangcaaaca | 60  |
| ntaaagcagg  | aacagcaaac | agatttttcc | atcacatgac  | accctcagct  | gattggccat | 120 |
| aactgccttg  | actgctgtgt | ggacaaagat | tccaaggatg  | tactttggct  | ccatgggaag | 180 |
| gactactgca  | atttattagc | ggtatctgta | aacatgggga  | ataaatctga  | aacctcacta | 240 |
| gccatacgag  | aagccacagg | caccaanact | ggcggntcca  | ctgccaaaagc | cagcactggt | 300 |
| gctcgggtcca | ccaccaaagc | cagcaccagt | gtttggtcca  | ccgccgaagc  | cagntcctgt | 360 |
| gctcgggtcca | ccgctgaagc | cactggtgct | tggtccaactg | caaaagccaa  | caccagtgtc | 420 |
| tggtccaccg  | ttgaagccaa | caatagaact | ggggccacta  | ctgaaccccg  | tgctggngct | 480 |
| gggttcncag  | taaagccagt | gcttgggggt | ggaaccctgg  | cnaagccaat  | ggtgggccta | 540 |
| aacctttggg  | n          |            |             |             |            | 551 |

<210> 10102

<211> 547

00620469.072800

<212> DNA

<213> Homo sapiens

<400> 10102

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| ggaaacaaac  | caaaaacttt | atttacaaaa  | gtaaatttta  | acttgctttt  | atatgtcata | 60  |
| taccgttaat  | gatgacagca | acagatttaa  | aatacattga  | ggtttgtgca  | gctcatttcc | 120 |
| ccctagttaa  | accataaaac | tttataaaac  | ttgcttttagc | tttgatgttt  | ggtcacgttt | 180 |
| gttgtgcana  | agtcacgttt | cagggttaggt | tcaccgccag  | acacgggtcac | atcaccattg | 240 |
| gctgnggatt  | tccaagaagc | aaaggagcca  | atctcagcaa  | agctcgcaact | ggcattttta | 300 |
| gctgcttaaa  | tttgaagagc | agttcagcaa  | agcttngngct | cccttctagt  | cctataggtg | 360 |
| gcagggtgctg | tggagctggc | acagagtggg  | agacgaggaa  | caggccagca  | tgctcagctg | 420 |
| ngattcctcc  | aanggctgnc | cgctgangta  | ngcgtgcaca  | cacattttac  | ccccgacttg | 480 |
| gacccctggt  | ccagggatta | tcaatggggc  | nctttacaac  | agggngggaa  | ttccagttcn | 540 |
| taaaaac     |            |             |             |             |            | 547 |

<210> 10103

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10103

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| ccttttactg  | cccatttatt  | accgtgcggg | ttaaaaaacg  | ggaaaagagg | ccgggcgtgg | 60  |
| tggctcacc   | ctgtaatcct  | aacacttcag | gaggctgagg  | caggcggatc | atgaggtaca | 120 |
| cgcccaggga  | agagaaggga  | cttgtccaaa | tgctactcaa  | gtacttggtc | cataacatta | 180 |
| agctttgtaa  | ttcaccaggt  | taaatgtgac | atcactgttc  | catccaccct | accaaacctc | 240 |
| caaagaaaact | caacttcctg  | ttccctcttg | aggaagtaaa  | acttaccaga | taaaaagggg | 300 |
| aacgaggtgg  | tggggggggg  | ctggccgtcg | aggccggggg  | ccaccaaacg | aggtancagt | 360 |
| ggagggangg  | ctgggggggac | canaacgcaa | tgctcagngtg | tcaggctcat | cottggaaac | 420 |
| aggcannccg  | ggataccatg  | gtgacaggca | agggancggn  | cc         |            | 462 |

<210> 10104

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10104

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagatggaat | tttgctcttg | ttgcccaggc | tggagtgcaa | ttgcgcgaac | actgcaacct | 60  |
| ccacctccca | ggttcaaaca | attgtcctgc | ctcagcctcc | cgagtagctg | ggattacaga | 120 |
| tgcttgccac | cacgcccagc | taatttttgt | atttttagaa | gagacggggg | ttcaccatgt | 180 |
| tgaccaggct | ggtctcgaac | tcctgacctc | atgatctgct | caccttggcc | tccaaaagtg | 240 |
| ctgggattac | aggcatgagc | cactgcacct | ggccatattt | tttttttttg | agatagggtc | 300 |
| tcactctgct | gccccagctt | gaatgcagta | gagtgatcat | agctcactgc | agcctcaaac | 360 |
| tottgggctc | aggtgatcct | cccatctcag | cctcccgagt | agctaggatt | acgggcatgc | 420 |
| gccaacatcc | ctggctagtt | tttaaacaat | tttttgtana | aacangggct | tgctatgtgg | 480 |
| ccaagctggn | cttgnacttc | tggactnaag | ccatcctgaa | ttnggcctnc | c          | 531 |

<210> 10105

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10105

|            |            |             |            |             |             |     |
|------------|------------|-------------|------------|-------------|-------------|-----|
| cagtgtcttc | agtgaagttt | actgtatatt  | ataaacagtc | atagaattca  | aagacaatca  | 60  |
| tataaccaac | tcttttggat | ggcttaggat  | gtgccaggta | ctgtgctaag  | gacaagagat  | 120 |
| ataaccagat | acaaaccagt | ccccatcctc  | aatcattact | tattcactca  | acaaatattt  | 180 |
| ttgagtactt | accctgcacc | aggcactagg  | gatataacag | ataaaaaatta | agtctctcgc  | 240 |
| ttcatgaagc | tttcattctg | atagagggag  | acaggcaata | agccaaataa  | atggttttatt | 300 |
| ccaccacccc | ttcaagtctt | cactcaaattg | ttcctttttc | aatgagacta  | tataaccaac  | 360 |
| gtatttaaaa | tttcaaccac | catcctgcat  | tcactgcttt | tcactcttgct | aaggngagtt  | 420 |
| atatgtgtta | atttgactga | ccacaaggng  | cccagatact | tggncaaaaca | ttatgcctgg  | 480 |
| gngngctgtg | aancatggnt | ttggatgaga  | ttaacatttg | gaatcagtc   | cctggataaa  | 540 |
| gcttattttt | ttttcccagg | ggna        |            |             |             | 564 |

<210> 10106

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10106

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gagatggggt | cccgtgtgt  | tgcccagggt | ggagtgcagt | ggtgcgatct  | tggctcactg | 60  |
| caacctccgc | ctcacgggtt | caaggattct | tctgcctcag | cctcctgagt  | agctgggact | 120 |
| acaggtgcgc | accaccacac | ccagctaatt | ttttttgtat | tttttagtaga | gacagggttt | 180 |
| caccatattg | gccaggctgg | tctccaactc | ctgacctcat | gatccgcccc  | cctcgacctc | 240 |
| ccaaagtgtc | gggattacag | gcatgagcca | ccacacccgg | caatttttgt  | attttttgt  | 300 |
| gagacggggg | tcttgctatg | ttgtccgggc | tggtcttaaa | ctcctgacct  | cgagcagtc  | 360 |
| tcccaccttg | gcctcccaaa | gtgctgggat | tatagacatg | aggcacggag  | cctggctctg | 420 |
| tctccctctt | taatgagtaa | attttacaaa | ttgccaacct | accactagtt  | agtacacagt | 480 |
| gactgtagtt | gtcanaagct | taaacgtgta | tctgggcata | cgggttcttc  | tgntttctgg | 540 |
| ggagcacttt | cctn       |            |            |             |            | 554 |

<210> 10107

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10107

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gagatggagt | ctcgccctgt | tgcccagggt  | ggagtgcagt | ggcacaatct | cggctcactg | 60  |
| caacctccac | ctcctgggtt | caagcgattc  | tctgcctta  | gcctcccag  | tagcttggat | 120 |
| tacaggcaac | cgccaccacg | cccggctaatt | ttctgtattt | ttagtagaga | cagggtttca | 180 |
| ccatattggc | caggctggtc | tcgaactcct  | gaccttatga | tcccgccaca | gcctcccaaa | 240 |
| gtgttgggat | tacaggcatg | agccactgca  | cccggcctgt | gagttactta | tttgtttcgt | 300 |
| gtattatctg | tctcatcccc | actagaaagt  | cagctccatg | aaggcagcaa | tgtttgtcta | 360 |
| ctttgttccc | tgttgtctcc | aaagtgtcta  | gaacagagct | ttgggcctgg | gtggccctca | 420 |
| caaacagtaa | cngaataaat | gaacncagac  | aagganaaan | ggctntgaac | caaacttaca | 480 |
| ggaggcacac | ttcagttaaa | actgggtcaat | ggntttcact | tgcacttgaa | gtaaaggan  | 539 |

<210> 10108  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 10108  
gagacagagt cttgctctgt tgcccaggct ggggtgcaat ggcgcgatct cagctcactg 60  
caacctccac ctcttggtt caagtgattc tcctgcctca gcctccctgg gattacaggt 120  
gcacgccacc acaccagct aatttttgca ttttagtag agatgggatt tcaccataat 180  
ggccaggctg gtctcgaact cctgacctca agtgatccac ctgcctcggc ctcccaaagt 240  
gctgggatta caggcatgag ccactgcact cggcctccaa cattccacta ttccagataa 300  
tgagaggctt tgagtctaca gggcattctg gggttacttc tatctctttg agcctatgac 360  
tgtagaatgt aggatgtgag gttctagaat ctttttatga agccngagga atgncccttt 420  
aactttccat ggccctcaag tgtgtgggct tctgntgcaa ggnctcatgt cttaagttag 480  
ggctaaagtc aaggactcat gggctatggc aaggcaaaaa nctnaagccg aattaactt 539

<210> 10109  
<211> 439  
<212> DNA  
<213> Homo sapiens

<400> 10109  
aaacagcact tgagtatata attagttcaa cgtaaaacca tccatctngg ccttggcgag 60  
gagccctgcc ttctccatgc cccggctgta ggctctgctg ccttgaatat ccacctccca 120  
caggtgcttg tcgtaggctg gatgtgttga atttctccat gatggggctc actgcaccca 180  
ctgtggccag gagagcagaa caactagtct ctctccacc atccagaaca gtgcctcttg 240  
cagagtctcc tcgggaaact taccaagtct gatggtaaca ggggcatggg accatcctaa 300  
ctgggaagac aaaaaggctg agaccttccc agagtcacct tgggagttag catgggaaca 360  
tggtgtaaca ccaagacaga gccaggctgg actgcagtag tgcaacctng gccactgna 420  
cctncgcctn ccgnttnan 439

<210> 10110  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 10110  
agctcatctg ctatggttag tgttagtgt ctttatgtgt gacccaagac aattcttctt 60  
ttcccaaggt gccacagga agccaaaaga ttggacaccc tgttctagat catcccatcc 120  
agtagtgtt aaacttttat ttttacagct aaattcctca agcagatggg ctctgtgtg 180  
gaatcacaat gatgctggtt aagattcact gaatgcttgc tatatatcag gctctgtttg 240  
gagcccagca tatatatata tataatctca gttaatccca cagtacctga tgaggagggt 300  
actgctgttt gtcccattta ttttttattt atttatttta ttttattttt tttgagatgg 360  
agtttctact ttgttgccca ggctgggggt caatggcgca atctcggctc accacaacct 420  
ccgcctccca ggttcaagca attctcctgc ctacgccttc caagtagctg ggattacagg 480  
cacgcaccac catgcccggg taatttggtg tcttttttan tagaaaatgg ggttctccat 540  
ggttggtc 548

009270"69462960



<210> 10111  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 10111  
gttttttggtg tttttaattg tttttgttaa tgtaaaaaaca gaaccatcac agccgctcag 60  
ctctataacc catccagccc aagactgttc tagtggtgaa accaagagta gacaggtctt 120  
cctacctcag tgacctcaaa acacaaggac atctccatag ggcatcaaca tgcattctgtc 180  
atccaagaat ctaagaactt cctgatcctt ccacattttc tatcaataat attgccttct 240  
gaggttatgg attccaggtc ttctatgaaa taggtaaagc ttcttttcgc gttccaagaa 300  
atatagtttg cgaaggggaa tggaaaacgt gactctaggc ctccagccact tcctctgtta 360  
ccctgtgcaa gttgtagaac aatccacgtt ctccagctc cccttcttca agttgtggag 420  
ttcttcaagg tggacagatc acacctcagg aagtcattcc ttggnagccc actagaatta 480  
tcataaangc agtccggcct ggtagttttc ttgnnccag catcactgng ccaccacnta 540  
agtctn 546

<210> 10112  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 10112  
gttttttcaa aactgctttt attttagtagca attcatgttc attcaacaaa cagtgtattga 60  
ttatatgaga gcacctgaca ccagggtactg acgcttatga gcaagacacc ttgtcaacca 120  
tagggagact ggatgaggat ttatataact cagggtgtatg accaagtcctc ccttgtctga 180  
caggccttat tatgaatgag tgtggttagtg agtaagctct aagacagccc ccagggatcc 240  
cagtctcctg gtgctcacac ccttgagagt tcctctgctc ctgagtgtgg atgaaacctg 300  
tgacttcctt ctaaccatca gaatccagca aagaccgagg gatgtcactt ccatgattac 360  
actgcacaag gttgtaactg ctgtcttgtt agactctcca ctgccttctt ggtttacatg 420  
ctttgatgaa ggaagtggcc atgttganga ngttcacgtg gaaacaaact gaaggtggnc 480  
ttcacagatg gacagtncca actaagggcc tcaatccatc ncttggangg gaaccaaact 540  
ccacaacct 549

<210> 10113  
<211> 466  
<212> DNA  
<213> Homo sapiens

<400> 10113  
agatcgaatt tcactctgtg acccaggctg gaatgcactg gcacgaattc agctccctgc 60  
agcatggacc tcccaggttc aagtgtatctt cccacctaaag actactgagt agctaggacc 120  
acagggtgtg cccaccatgc ctggctaattg attttttttt tttttttgct agacacaggg 180  
totcaacatg ttgccaggcc tggctcttgaa ctccctgggct caagcgatcc tcccacctca 240  
gcctcccaaa gtgctgttat aagcatgtgc caccaccac totggccttg atactctttt 300  
ggtaaaaaat atactagtat tagcattctg tggccaggaa tgggtggctca catccatctg 360  
taatcccagc attttgggac gccaaaggccg gaggattgct tgagcccagg agtttgagac 420  
cagtttgagc aatatggcac actgtttctn cnaaaantnn attntn 466

<210> 10114  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 10114  
catctttgaa gtccttttatt cccagcagtt cacatcagtt actcattgag ctgggggttcg 60  
tcatattaac caagaattca ttcatctttc ttttgatatt gtaatcttgt cctcatctcc 120  
acaactgagt tggggcctga ggggtttaag agttctcact ccatcacagg aggcaagggg 180  
tacccttggt aaccagactt caactcctgg aagtcttggt cagttcatag gcaaatactt 240  
ttgcaagttt agtatgagac agcccaacgg ttaaataaat aagacacagt gccatgggtc 300  
taggcatttg gagagggaaa aggcacatta cacagattcc cctggagaaa atacaggcca 360  
ttctcatctt ctcaacatgc attttcccac tottcagcga cttttaatct tatcccctgg 420  
tctatgagaa accataaccc acgtgctact gaatacattt ttattttccc ttcattgacat 480  
anacttgggt tccagtatat ttttaatttc tcntatgnc tacaagacat ncaantttgg 540  
tcagggc 547

<210> 10115  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 10115  
agagaaagtc tggaggttta ctcaacaacg ttcacaatca caattgtaca tggtaaataca 60  
gtctttcaca aaggcttatt tttccaggca ggaggagagg ctggtggtct tgagcttttg 120  
gcctggaatt ccagcttgaa ttttcaaata ttccctgcct ccaacccctt tgggatccca 180  
gtcttcaagc caataacaga gcaggagtct gaccctgttc tgttgccctgg catggctgaa 240  
tcaaagccat tctggaagca gatgttaagg tgaacttgct acttggtatg taggtccgac 300  
tcccatccca gaggtggcag tgggccttgg ctcaagatca agtttgaact aaaatattac 360  
ttggattttt cacaagaggt gtccgttgaa agcaataagg aattccagaa cagaactgca 420  
cttctgttcc ctctctcaca cttacaaagc ttcagaaaac attaaaaatg cattacctct 480  
aggaattcna aagatcacco aactgtncaa actagatato gctgaagcag aaactctgan 540  
tcctcagtac tac 553

<210> 10116  
<211> 578  
<212> DNA  
<213> Homo sapiens

<400> 10116  
cttttttttt tttttgcctc agagttttctc aagctttctg actttgatca acagtctacc 60  
aaggatatac tttaaaattt tacagtaatc aatatcataa cagcagctaa cagtacactg 120  
ggtgaggatg gtactttaat aattatttat tgagttgott acagaagaga ggtctcccaa 180  
gtcccaaata aacttcacaa atattttatt agtacttaca atatacaaaa acctttttct 240  
aagctctgcc ctacagatta ataaaaagga gcttaaaatg aagggaagga gagagaaaaa 300  
gacaaaagat taatacacia gttatggtac ttctaagcag gaaagaagct gcttaacttg 360  
gttgggatgg gagaggggtg gtttcaagcc agaagctgaa cagcatgttg agatgctaaa 420

09629469.072300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ataaggaaga | tattccagaa | agaggacagg | cacagaatct | ccacgtgaaa | tttcctgtag | 480 |
| actagtaaga | aaatcaagt  | agatcaacag | gagaaagatn | taagaagaaa | actccanggc | 540 |
| caggcacacg | gntcatgcct | gnaatccagc | ctttingga  |            |            | 578 |

<210> 10117

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10117

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| ccattaatct  | ttctggagaa | cctagatcct | aagtcgaaaa | acctactgaa  | gtatatcaca | 60  |
| acctgtaagt  | aggtacagat | gtctgaggcc | tatttagaac | aacagtgtta  | gaaaggcgct | 120 |
| tccttacctg  | ttagacaaag | gcgacttccg | gccaaaccca | attgccccca  | ggatcccaga | 180 |
| gctgagtctc  | tcctcagcca | cgaggttctg | cctgctctga | accaagagca  | gaattcgaat | 240 |
| gacagattct  | gtcaggacgg | agtcattctg | ctctgtctga | atgagggaga  | gctgaaggac | 300 |
| ttgggtgccac | cacaaaaaca | gctttgcctc | ttcctccacg | gagcttgggt  | acacctgttc | 360 |
| cagccacttg  | cttaagatga | gcagcacttt | catttcattc | cttaaagtct  | gttcgctgtt | 420 |
| taaacactga  | agcaagtaga | cgtaaagagt | caagtaactg | cccaagggtga | ggcactcctg | 480 |
| caggaaactct | tccatggtga | gctcgggaac | ctgaagggat | ccagaatggg  | tccccatcct | 540 |
| gaatctgatg  | gagagggcnt |            |            |             |            | 560 |

<210> 10118

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10118

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| gagacggagt  | ctcgctctgt | cacccaggct  | gggatgcagt | ggcgcaatct  | cggctcacccg | 60  |
| caagctccac  | ctcccgggtt | ctcgccattc  | tcctgcctca | gcctcctgag  | tagctggggac | 120 |
| tacaggctcc  | tgccaccacg | cccggctaatt | tttttgtgtt | tttagtagag  | atagggtttc  | 180 |
| accatgttag  | ccaggatggt | ctcaatctcc  | tgacctcgtg | atcgcccccac | ctcggcctcc  | 240 |
| caaagtgtctg | ggattacagg | cgtgagccac  | cgtgcacggc | caattatitt  | atttttcaaa  | 300 |
| cctaagagga  | gctcccaata | tgaaagtatt  | gtcagcaagt | tttctcataa  | aatgagaaat  | 360 |
| cttgtaaatt  | aaacaaatca | caaattggcc  | tgctttgcac | atccagagtt  | tcatgacctc  | 420 |
| tagctaataa  | agatgcccac | gtttgctcag  | gtcaccatgt | gttggggctcc | tggctggggca | 480 |
| tttcangcac  | atccatgcta | tcatcatccc  | tattcttcaa | gtgaaggata  | cttggggctc  | 540 |
| anaanagggt  | cggngacttg | gctaangnc   |            |             |             | 569 |

<210> 10119

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10119

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| gaaattttta  | agctgggtgt | ccagggcgaga | catcacatgt | tggcagggttc | tgtgatgcc   | 60  |
| cctgagccat  | aaaaccagca | aattttttat  | tagtgatttt | caaaagggga  | gggagtgtcc  | 120 |
| aaatagggtta | tgggtcacag | agatcccatg  | cttcacaagg | taataagatt  | tcacagggtta | 180 |
| aatggaggca  | gggcgagatc | acaggaccac  | aggactgggg | tgaaattaaa  | attgctaattg | 240 |

00629469.072800

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aagtttcggg | catgcattgn | cattgataac | atottatcag | gagacagggt | ttgagagcan | 300 |
| acaactggtc | tgacccaaat | ttattaggca | ggaatttcct | cgtcctaata | agcctgggag | 360 |
| cactctgaga | aactggggct | tatttcaccc | ccacagntgn | gaccataaaa | gacagntgcc | 420 |
| ctgaancanc | cntttna    |            |            |            |            | 437 |

<210> 10120  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| <400> 10120 |            |            |             |             |            |     |
| cattttactg  | catttngctt | tattgcgctc | tgcanatagt  | acatttttta  | caaagngatt | 60  |
| tgnggaaacc  | ctgcagcgag | caagtctatt | agcacatttt  | tccaatagta  | tgngctcact | 120 |
| tcatgtctct  | gcgtcacatt | ctggtaattc | ttacaatatt  | tcaaactttt  | tcattatcat | 180 |
| catatctgtt  | atgatgatct | gatcagngat | ctttgacatt  | actattgtaa  | tagttttgga | 240 |
| caccacaaac  | catgcccata | taagacagca | aacttaatta  | ataaatgttg  | tacttgttct | 300 |
| aaccgctcca  | tcaacaggcc | atttccctgn | ctctctccct  | ctcttcaggc  | ctcccatcc  | 360 |
| ctaagacaca  | atattgaaat | taggccaatt | aataaccttt  | tgatagcctc  | taagtgttca | 420 |
| actgaaagag  | ttacaggatc | tcacacttta | aagcaaaaagc | tagaaaacgat | taaagctttg | 480 |
| agaaaaaggc  | atgccaaaaa | tggagatagg | ccaaaagngg  | agctcttttg  | accaattagc | 540 |
| caagtgggaa  | aagg       |            |             |             |            | 554 |

<210> 10121  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| <400> 10121 |            |            |             |             |            |     |
| gaggactgca  | aggcacaact | gtgcagacag | gcagagaagc  | ctcagcacct  | gtgggaaagg | 60  |
| aacgaatcca  | tttctgtctg | ctcattttcc | acccatgagt  | gtggacagcc  | ttcctgtccc | 120 |
| tggagtgtcc  | aggcctgcct | ggactgagtc | tgtccctctc  | cctccccttg  | caaaggctga | 180 |
| gagtgttctg  | gatgtggctc | tgaagaagt  | ccaaggtcta  | tcaggtgggt  | ccaccacagc | 240 |
| cctagcccag  | gatgtccctc | acctgtgtcc | attccccag   | caaagtcctc  | atcataggag | 300 |
| tcatcagtgg  | agtcctcgcc | atccaccgaa | gaccatgctc  | ggagcttggc  | ttccgcgatg | 360 |
| gcaaactgct  | cagccactcc | tgtcgcaggg | acagaatgca  | taagcagaga  | aggtgagtta | 420 |
| agtctagggc  | tcagcttgaa | gacaggagag | aggagaaaaca | gggtatggga  | agactccaac | 480 |
| ccccatgtca  | naccgagga  | gataaagaaa | gcaccctggc  | cgggtgtggtg | gcttaagcct | 540 |
| ggaancccag  | cactttngga | ag         |             |             |            | 562 |

<210> 10122  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10122 |            |            |            |            |            |     |
| atcattttat  | gaactttaac | catagcaaat | gggtttttac | ggnagtcata | aatcaacat  | 60  |
| taccacatat  | acaaaggaca | agaccccagt | ttggcataca | aaaataccat | atattaaaat | 120 |
| tgggttcatt  | ggaaaactca | ggactggcta | aaacaccatc | tataacagag | agagcaagca | 180 |

009270.69462960

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| agaatgcttt  | taagacattc | agattttataa | acagcagcgt | gatatccct  | ttacgaagtc | 240 |
| aatatattggc | aacatttgga | caatatatttc | tacacagccc | agcagctcat | ttatctgnag | 300 |
| ggctatttgg  | cccttaaaaa | aaaaaaaaaa  | aaaaaaaaaa | aagcncctaa | aataaataat | 360 |
| ccnnataatt  | gnaaatgaaa | cncatn      |            |            |            | 386 |

<210> 10123  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 10123 |            |            |            |            |             |     |
| gggatggagt  | cttgctgttg | cccaggctgg | agtgcagtgg | cacaatctcc | gcttactgca  | 60  |
| acctccacct  | cccaggttca | agcagttctc | ctgcctcaga | ctcccaagta | cctgggatta  | 120 |
| caggtgtgtg  | ccaccacact | cagctaattg | tttttttatt | tatttttgag | atggagtgtc  | 180 |
| gctctcttgc  | ccaggctgga | gtgcagtggc | gccatctcgg | ctgactgcaa | gctctgcctc  | 240 |
| ctgggttcat  | gccattctcc | tgctcagccc | tcctgagtag | ctgggactac | aggtgccgc   | 300 |
| cgccatgccc  | ggcttttttt | attttttttt | tttttttttt | tgtagttttg | gtaganacgg  | 360 |
| ggtttcaccg  | tgtagcccg  | gatggctctg | atctcctgac | ctcatgacct | catgacctgt  | 420 |
| ccgcctcggc  | ctcccaaagt | gctaggatta | caggcatgag | ccactgtgcc | cggcttggtat | 480 |
| tggattttag  | caganacggg | gtttcactat | gttggccaag | ctggctcaaa | ctggtgactc  | 540 |
| aaagaa      |            |            |            |            |             | 546 |

<210> 10124  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 10124 |            |            |            |             |            |     |
| gtaaatccaa  | actacaccta | gaaaactgct | ttctgaaaca | ttccttagtc  | tgtggctcac | 60  |
| ctaataatcc  | tactcaacc  | ttatcaggag | gtaaggattc | tgtctgaact  | caggatccat | 120 |
| ttggatcggg  | ggcctaccta | tgggcaatga | gaggaatcat | attaactgtc  | actgtccatc | 180 |
| ctctgagctc  | ttgtagtttg | tagtaaaata | catactgtcc | catataaaaa  | atgagaattg | 240 |
| tgttacccta  | aatgtcagat | aatttggtgt | ttcccagctc | tccagctcta  | aagaatctct | 300 |
| gctgggtatc  | cctttatgtc | tggaaggaga | ctgtcagctt | ctggatatctg | agacctgtgt | 360 |
| gccctataac  | atctagttat | ggctatcgtt | cttaactagt | ttagggatac  | ccttctgtag | 420 |
| gaattaagag  | taaacacaga | tcttcagagg | caagagtttt | agaacttatt  | gaagactttt | 480 |
| ggcatatgga  | aacttcattc | aacaaagagt | gccccttaaa | aaaaatctct  | actggcattg | 540 |
| ggtatgggga  | tctgcc     |            |            |             |            | 556 |

<210> 10125  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| <400> 10125 |            |             |            |            |            |     |
| gagactgagt  | ctcactctgt | caccagggct  | ggagtgcagt | agtgcaatct | tggtttacag | 60  |
| aaacttccgc  | ctcctgagtt | caagcaattt  | tcctgtcgca | gcctcctgag | tagttgggat | 120 |
| tacaggcacc  | tgccaccatg | cccggctaatt | ttttgtattt | ttagganaga | tagggtttcg | 180 |

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| ccatgtttggc | caggctgggc  | ttgaattcct | gacctcaggt  | gatccactca | cctcggcctc | 240 |
| ccaaagtgtc  | gggattatag  | gtgtgagcca | ccttgtccgg  | cccaaactga | cattttatag | 300 |
| ggatttttca  | tccttaaagn  | gatctactca | gtcattttct  | tccaaatctg | nattttacag | 360 |
| cacactttta  | actggtgccg  | cagagttttt | gagtggatgat | ggcagctgcc | ctctatgtct | 420 |
| gtggtgtgcc  | ggccccctcat | gctggggaaa | gaggggacgt  | gaccctaccc | ttacagcagg | 480 |
| ctggcctcct  | ttctntncca  | aactggcggc | cctgntctgg  | gctaactagc | ccaatcctag | 540 |
| cctn        |             |            |             |            |            | 544 |

<210> 10126

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10126

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| gagatggagt  | ttcactcttg | ttgcccaggc  | tggagtgcaa  | tggcacgatt | toggctcact | 60  |
| gcaacctctg  | cctccccggt | tcaagcgatt  | ctcctgcctc  | agcctcccca | gtagctggaa | 120 |
| ttacaggcgt  | ccaccaccat | gcccagctaa  | ttttttgtat  | ttctagtaga | gatggggttc | 180 |
| caccatattg  | gccaggctgg | tctcaaaactc | ctgaacctcag | gtgatccact | cgccttggcc | 240 |
| tcccaaagtg  | ctgggattac | aggcgtgagc  | caccgccccct | ggccaaggcc | ctactttcta | 300 |
| aaagaggaaa  | actgagacca | aggaagggtta | atgagcacat  | ctgtttctcc | actcaaggcc | 360 |
| agcgggtgaga | aacggcagag | cggggcacccg | gtaccttggc  | ttcaggcaag | tcaccagca  | 420 |
| cctctgggct  | tcatactccg | tttgaaaaat  | gcggtatgaca | agaacatccc | ccatccagcg | 480 |
| gtcccactct  | ggngaattta | ttctaaaagg  | gaaaatccaa  | caggnttttg | tctggggatg | 540 |
| agtcacgan   | gcttnatta  |             |             |            |            | 559 |

<210> 10127

<211> 572

<212> DNA

<213> Homo sapiens

<400> 10127

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| catgaagacc | agttttat   | acatgcttgc | tttccacattc | tttactggga  | atttaaggcc | 60  |
| ttttttcagc | cttaacttgt | ataccaacct | caaggatttt  | gtttgataca  | gaaaaggata | 120 |
| gggctgggcc | cttctgcca  | ggactgataa | cctgcctgcc  | aaaagggaaga | gggaatgaaa | 180 |
| gccttttctc | cttctaggcc | ccttacagta | cctcaaaaatc | taaaggcctt  | aaaggggaaa | 240 |
| aaaaccgtat | ctgttctttc | tccttatctc | ctacccttct  | ctttaagcat  | attgaagatg | 300 |
| gacttttttc | caaatgttta | tttgtaggaa | gaggtgatga  | gogcaggcca  | gcagctgaga | 360 |
| acttacagct | ttgatgcacc | aggaactgta | ttcaagctga  | gggcaaaaagc | ctcctaggga | 420 |
| gggagccagg | tccaccaagg | ccagagacag | acagggcgag  | actgtggaag  | gccagggaga | 480 |
| tgctgcctgg | taaatgctca | gctggcctac | tgggcaagtc  | ctctgggggt  | tctagagctg | 540 |
| atnggaanaa | ggagtcattt | tgatagtccc | gn          |             |            | 572 |

<210> 10128

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10128

009240.69462960

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagagtctcg | ctctgttgcc | caggctggag | tgcagtggcg | cgatcatggc | tcactgcaac | 60  |
| ctccgacccc | ggcgttcaag | caattctcct | gcctcagcct | ccctagtagt | tgggattaca | 120 |
| ggcatgcgct | accaagccca | gctaattttt | gtgttattag | tagagagggt | gtttcaccat | 180 |
| gttgccagg  | ttggtctcga | attcctgacc | tcaagtgate | cgctcgctcg | cctctctacc | 240 |
| ttccaaaatt | ctggaattac | aggtgtgagc | caccacgccc | ggccagggat | gtggttttat | 300 |
| aaactatgaa | ctaactctcc | atgctatgtt | gttcttggtt | attcatttct | ctcatagata | 360 |
| attaaaaaca | aaaaacaaga | aaacaaaatc | caacaagcag | gcataagatt | atatgggagc | 420 |
| tttattaact | aaatgcccta | ggttatattc | aaagcagaat | caccacgac  | tcctcaggag | 480 |
| actgcancat | ggggtaaaat | tgggtgnact | ttgaggacat | tttgatatc  | ctaataaaac | 540 |
| atggaccttc | ctggggttct | taangc     |            |            |            | 566 |

<210> 10129

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10129

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ctgagacaga | gtcttgctct | gttgcccagg  | ctggagtga  | gtggcacgat | ctcggctcac | 60  |
| tgaacctct  | gcctcccggg | tttaagtgat  | tctcctgcct | cagcctgtgg | agtagttggg | 120 |
| attacaggcg | cataccacca | tgccagcta   | atctttgaat | ttttagtaga | gatgggggtt | 180 |
| catcatgta  | gccaggctgg | tctcgaactc  | ctgacctcat | gattcacctg | cttcggcctc | 240 |
| ccaaagtgt  | gggattacag | gtgtgggcca  | ccacacccgg | ccaaggaaaa | cttttaaaaa | 300 |
| ataagtttag | tgacacctaa | gtctacagt   | gttataaagt | ccacagtagt | ggacagtaat | 360 |
| gtcacaggcc | ttcacattca | ctcaccatcc  | actcatttac | tcacccagag | caaattctag | 420 |
| tcctgtatta | caagctccac | tcattgggaac | cattttttaa | atcttttata | ccatattttt | 480 |
| cctgngccat | ttctatggtt | agatactgaa  | tccatcggt  | tcaattgcct | gtagtantca | 540 |
| aggacaatca | catgcttgac | anggttgg    |            |            |            | 568 |

<210> 10130

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10130

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggatcataag | tatcttcaag | acaaaaataa | ttttctactc | ctgagcatgc | tcatttgtca | 60  |
| aaggaaggaa | ggaatcataa | tagcgttaat | aaggctagcg | tcctttcana | agttggttct | 120 |
| ttgngccagt | cttgnggcta | gacacaccga | taggaanaaa | actccttcac | atccccagga | 180 |
| caccaacatg | ggatacgttt | gatcatcatt | cttaatttgc | anaaggagaa | ataggctcag | 240 |
| tgagatgaaa | tagccactcc | agtggcaagg | ctgggactgg | aagccgggct | tgtcctgatt | 300 |
| ccaaatccag | tttctttcca | ctgccacgga | gacggagaga | agggacagng | gccccanatg | 360 |
| gggatggggg | gactggatgt | gggcaggcct | gcgggggaag | agtgccctct | gttgagcatc | 420 |
| cgaatgatgg | cnccagaaaa | gaaaactggg | canaatccca | gttattaaaa | tcctctgagg | 480 |
| ggaacaggtc | accccgaccc | ctnaggcana | agangggggg | gaanacaagg | cccatanatg | 540 |
| aaggccctgg |            |            |            |            |            | 550 |

<210> 10131

<211> 448

<212> DNA

009220.69462960

<213> Homo sapiens

<400> 10131

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| ggtttttttt | tttttaaaaca | tntacttatt  | tccattttta | tgaanaatta | aaggatncaa | 60  |
| tgggttaaag | acncatttaa  | aataactagca | agggattaga | cagacgaatc | aaattttgnt | 120 |
| gatatcccaa | ataattacaa  | gagacttoga  | aaatgtagng | naattcaggn | tttctttcca | 180 |
| gtttaaaaat | ttctatccat  | tgctctatc   | tttggggnga | ctgccaccaa | taaacncagt | 240 |
| ntacagctta | naaaccta    | tactatcttc  | aactaggaaa | aggnaaacca | acatcatttc | 300 |
| tttaaaatgn | gaaataaaga  | atgngatcgn  | acttaatttt | ggctcatggg | cccacaatac | 360 |
| tntgaaatgn | catgccnaaa  | tgtaaaagtt  | caaaagggaa | cnttatcatt | tgctataatt | 420 |
| gcnccaaaaa | tttagctctg  | naonctgg    |            |            |            | 448 |

<210> 10132

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10132

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| acagtacatg | aatgttttat | tcttcataaa  | gtgcttaaaa | catgaagaag | aagctcttta | 60  |
| taaagagcct | taactaggaa | gacaaacagc  | aaagcagaac | catgcctgca | ccctgcccaa | 120 |
| cccacctgca | actttcctcc | aagtgtggct  | cggagaagaa | acatcaacaa | ggacctggg  | 180 |
| cttcgattca | aaaactcctc | tgaagccatc  | catgccctgg | gcattaggga | ggcccacaaa | 240 |
| ggtcagggcc | agggctggga | gtgaataaag  | cccagaggaa | tccccagtag | ggggggtgac | 300 |
| tccccctctc | tcagaaaaga | tacttaacttc | tctaataccc | aatgaccccc | aaaagcatga | 360 |
| ctgaaaccct | ggggaacagt | ggatactttt  | ctcagatttg | atgagtggag | tttaaggtag | 420 |
| gtaaccgtta | caggggcttt | cctccatgtg  | tggcgtcctc | ctgctccatc | ctggcagcag | 480 |
| acagacatca | cccaganggc | acgtgtctgc  | ctgangcctt | tcaaaagcaa | gcccacaagg | 540 |
| ccctttcttg | aaaaaatggn | ggncccaaa   |            |            |            | 569 |

<210> 10133

<211> 363

<212> DNA

<213> Homo sapiens

<400> 10133

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cccattgggt | gacagcgttt | attgaaagga | aatcttgctt | tatccaggaa | ttcactcaca | 60  |
| tggaggtagc | tgcaaggaga | atgtctcttt | ctcatgacaa | ccaaagcgac | caaaccatac | 120 |
| cctaaagcag | agacncaatg | gaataagtoa | acgggcattg | tagaacgacg | ctcagaagca | 180 |
| ggaaaaacca | taaaagatac | aggatgattg | tctcttcagt | attgcatttg | gccatgtatg | 240 |
| tgtttttaca | taaaatatat | gttttctttt | taagctagct | aaagaaaata | ctcttgatcg | 300 |
| gggttagttc | ttaaagcaaa | aaacngaana | aaangttgga | tananaataa | aantaaagaa | 360 |
| ccn        |            |            |            |            |            | 363 |

<210> 10134

<211> 433

<212> DNA

<213> Homo sapiens

000220.69462960



<400> 10134

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gcctcttttg  | ttaaacagca  | acagagctct  | gccactttgg | ccaaccaccc | tcctttgtcc | 60  |
| tcttcccttt  | ccctcctgcc  | aagtgtccta  | ttctcaaaag | gtctaaatca | ctgccttcca | 120 |
| gcttggtggg  | caacctgctg  | ggggccccc   | gtgaggtggg | gaggggctcc | ctagctatct | 180 |
| cccagtgacc  | tctatcacat  | catcgtcttt  | atcctcatca | tcattggagc | tgaacccaac | 240 |
| ctcggcaacc  | tcattgagagt | caaattggagg | cacctggggc | cgtaggaggc | caccagctgg | 300 |
| gtagcctgca  | tgtgggggaca | tgtacctgga  | tagatagaac | atgccccnca | aaaggttgtt | 360 |
| ggncaaaaaca | gggaaaggaa  | aaggcncaaa  | catcctgggt | tngancagaa | ttggctggna | 420 |
| aantggaagt  | gaa         |             |            |            |            | 433 |

<210> 10135

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10135

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| ctttgtcgtt  | gttttattta | aaatgttatt  | gtctctgatt | agaaaataca | gtcatgaggg | 60  |
| ctaaaaactg  | aaatgatgtg | aaaaggcctc  | cattaagcag | tggtgcccc  | ccaccctctc | 120 |
| catcagtcct  | gtctcatggg | gatgggggaaa | atgaagacag | aacgctttgc | cttgctttgc | 180 |
| aatccctcct  | ttgaaggcct | tctgtcccag  | gaagccaatg | ttcatttgat | gtggaagagg | 240 |
| gacctgtgtt  | taaccagaag | ctgtcctccc  | tcattccctt | cccatggcct | acacgcagaa | 300 |
| gggagaggag  | atgaccagag | gagaaatcag  | ggggaagaaa | aggcaacagg | ggaggcaaag | 360 |
| gggaaaggag  | aggaatgctt | aaaatatacn  | gngaaatttg | agtaggatct | ctactcaaag | 420 |
| acttctntgg  | gaagtgtcca | naattgacca  | cccagggtgt | gacggtngaa | agaaccnnga | 480 |
| cccaaaaccc  | tggactagtt | gcnttaactc  | cattagccct | gagttncctt | tgnaaaanga | 540 |
| aactggggggg | c          |             |            |            |            | 551 |

<210> 10136

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10136

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| aacgtgaata  | atgctgttat | tagagttgaa  | gagaagccct | tagaaatggg | acaaacattg | 60  |
| taattctctt  | agagaactgt | aacttaaaaca | gaaatacact | taatagaaga | ggaaagaaaa | 120 |
| tggttcatgt  | gacacaaagg | tcccatgtgt  | tgacttcttt | ggtaagatca | aataagtatt | 180 |
| taagcctagc  | aatagggtca | gtccagttag  | tattttctct | cacaaatggt | gaatatcaac | 240 |
| tccaggatgg  | ctggagtttt | ctcatggttt  | ggttccacgc | catctgcatg | tctttacaag | 300 |
| tgataaaaac  | cggaattttc | cagctgctac  | tagtcacagg | gggtccccc  | tatgggttgt | 360 |
| ttaattatga  | tgacgggtcc | tgtcaattgc  | atccagtaaa | attggtcaca | tagagaactc | 420 |
| atctaaaact  | gagggtttgn | tgtggttttg  | aaaggccatt | ggaatccaga | tttgcaaagc | 480 |
| atgtcaagggt | atggcaaaac | atatgccacc  | catnttaaaa | actttcctta | taatgnanga | 540 |
| ctt         |            |             |            |            |            | 543 |

<210> 10137

<211> 554

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 10137

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ccttttaatg | ataatgattt | aacttagaaa | tctgttgtga | aacttttgtc | tagttttgca  | 60  |
| attctcagat | attccagtgc | aaaaatagat | cccgttacag | acagcgtaaa | gtgcttgga   | 120 |
| tgagggccaa | tgatgaacaa | agagcacaaa | aacagcttca | tcttagggta | taagaaggga  | 180 |
| taatagcata | cctaaatcct | tatggaaata | gaaacattct | aagggggatg | caacaatttt  | 240 |
| gaaaagaatt | agagcaatat | ttctacagta | ttacattatt | actagtagat | aataacaagg  | 300 |
| gtacaaatta | atgtctcaat | atcaaagtgg | gttcagtatt | acatgacaca | tggctctttg  | 360 |
| gaaaatattt | tacctgatat | atacaaccac | aagaagaaaa | cacagataaa | tggcttttagt | 420 |
| caatgattac | tatacagtga | atgaatgatg | tgcaacattt | aatagtcaca | aagcatttgc  | 480 |
| tttcagtaca | gataatgaaa | tcagtagtgt | gagggttggg | tggtttttaa | caatgaattg  | 540 |
| ngctggggca | tttn       |            |            |            |             | 554 |

<210> 10138

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10138

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| atgattatta | tggttaagaa | ttttattatc | aaaattatta | catctcttgt | gaaagttcaa  | 60  |
| atgttacagc | aaggtgtaaa | cactccactt | gagaaagaag | tgataactct | tcccttccaa  | 120 |
| gagttccccc | cacccccgcg | ccctaccccc | ccaagagggt | tggtcttgac | agcacccctgc | 180 |
| ccacacagag | tggtctgggt | ctctgcacgt | gccaggcagg | gtgagggccg | cctgcccgtc  | 240 |
| ggcctctccc | cttggttaaa | tagccaaggg | gagaatgcaa | accccagccc | aaatggagag  | 300 |
| acatttacat | acgttttata | taatatacaa | agaaaccagc | atcccaggca | acatgatttc  | 360 |
| cactcccaat | gctctcccag | actgatgggt | ttgtggggga | aacaacanaa | agaaaagtac  | 420 |
| actgctgagg | tctcagcatt | taaaaaaaaa | nnnaaaaaaa | atctcccctc | atttgagcaa  | 480 |
| acacctgatt | tcgattttga | aaagngaatt | ttgnaacaag | tcacaccna  | agaggagaag  | 540 |
| actgtgcnt  |            |            |            |            |             | 549 |

<210> 10139

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10139

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aacaaaatac | ttattttatt | gttgtaaaat | taaaaatagt | agacaagcat | atatacagtt | 60  |
| cccaagcaga | gcaatacaaa | tatatataat | attgcagttt | tcaaagaaaa | tgtaacagcc | 120 |
| aaataattgc | ctactttttt | gaaacaaact | tggtttttac | cacagcagtt | tcattttctt | 180 |
| tttccaaaag | tcttaacaca | attttgtaaa | gtaaatctct | aacgccagag | agattaagtt | 240 |
| caatgaccat | agtatatgct | actgnnttaa | agcaaggtta | acacacacac | acacacacac | 300 |
| acacacacac | aaaatgggac | tgaacaaaag | tcactactta | atactttcta | aattgcctct | 360 |
| tttgagggta | cggtgaaaga | aaaacattct | agatgtgtct | gaaagaaaca | aggtcacaca | 420 |
| cttactaaaa | ttcccctttg | ctttaagngt | agttgaggga | agttcaacta | atcttaaccc | 480 |
| tttttgggaa | gaaggcaata | ctcatcttca | tgaatttttg | ttacnttgga | aacc       | 534 |

<210> 10140

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10140

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| acaaaggact | gaagtcaaac | cgccaaaaga | aaaatgtatt | gtaacaacaa | atagggtaca | 60  |
| actttaagga | atgtactttt | aaaattacta | tgagtttatc | aataataacc | tttcatgtta | 120 |
| agtcttccaa | tttttgtaca | taaaaatgat | tttcatcaaa | ccactgaaac | tatccattgt | 180 |
| ggatgtaaat | aaaataacca | agttcaatgt | aagaaagcag | cataaaacaa | agtaaaactt | 240 |
| gtgatttgca | aatcagcctg | atgtaagttt | gttggtgttg | ttgttttttt | ttgcctttgt | 300 |
| agttgcagaa | ggtgagctct | gttttagaag | gagtcatttc | attccccaat | tgaattttta | 360 |
| ctcatttagg | ctaaaatcac | ttcaaaagtt | taaaatgagg | gtagaggaaa | taaaaaggaa | 420 |
| aaaaagtaaa | cntataggta | agtttatcag | atcactaaat | gctanccttn | gaatatccaa | 480 |
| ccccagccaa | tgcntaaggt | ctttatgcca | tcctggattt | ggnntttnta | aggggaa    | 537 |

<210> 10141

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10141

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| ctcagagaat  | tatttaataa | tagaattacc  | atacttttgg | cgcaaatgtg | tccaacacca | 60  |
| atgtgacaag  | tacatatatc | agaatcactc  | tttcctcaga | gaatcacacc | ttcccttggc | 120 |
| tctgcctgtg  | gatccaaatc | aagcctgggt  | gtggctgaca | ataccagggc | acggtttgc  | 180 |
| tcccggccct  | ccatctctac | tgtttggtta  | cagcttgagt | tcactaggca | tcggctcccc | 240 |
| tctcaggcca  | gccagcaagt | tgtttagctgc | caacaaggac | atggtgttgc | gggttctgng | 300 |
| ggtggcaactg | ccaatgtggg | gcagaatcac  | acagttcttc | agggtcatga | nanggttgg  | 360 |
| ttgtaagcag  | tggttctggg | ctcgncacat  | ccagtccagc | agctgcaatc | ttaccactgg | 420 |
| ccaagggctg  | gtacaggctc | ncctgggtta  | cgaacgtcgc | ccctgggaat | gacagtgggt | 480 |
| gacatgggta  | ccccgaaaa  | atccttcgnc  | aagccanct  | ttgggggna  | acaactaccg | 540 |
| at          |            |             |            |            |            | 542 |

<210> 10142

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10142

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtgtgttaag | tcacttgttt | atttctcaag | atgtgcacac | tcaagtatga | agctggccgg | 60  |
| gacaactcat | ggctcctagg | tatgtacagg | ccctttgatg | gcttgggtta | cagacaacct | 120 |
| catagctggg | gcaccacaca | cacgagataa | aacaggaagc | ctaaaaaccc | caagccacac | 180 |
| caagaaaaat | gagagagggg | agggcggggt | aacaatgcag | catcccgcgg | agggaactta | 240 |
| atgcacaagg | agggagaaca | gagggtggaa | ggcaagccaa | ctttcncttc | gccnccgcaa | 300 |
| ctgctgngng | ggtgggcaag | ggactgagtt | caacaagggc | ctttaggaaa | ctttttggaa | 360 |
| tcgggtgaan | tctgatnaaa | aaaccggggc | acaatcgagg | gaacttttgn | aaaggcttcc | 420 |
| acttggcttg | aaactcctcc | tggaaggttt | tnagggtctt | tgctggcagc | ttcgtaaatg | 480 |
| ggcatgtcgt | tgnggcggat | gtcctcancg | agagaccgga | ccagcctccc | ttttgggtta | 540 |
| ctggnagg   |            |            |            |            |            | 548 |

<210> 10143  
<211> 311  
<212> DNA  
<213> Homo sapiens

<400> 10143  
agntagattc tacctctgnc acccaggcgg gagtgcagng gcatgatctc ggctcactgg 60  
actccagctt aggcaacaga gccagactgn gtotcaaaaa caggaaagaa aacnaaagaa 120  
aatttggact attgccaatt acaaatatit ttagagaaga attcaaaata gtaactgngg 180  
atgatggaaa caatagtatt gatagaagtc tgatgaaact tcccagttca caaggaaatt 240  
taattactta cgtgcagcat ttttaagacag taatcagaat cntgantggg ngnatnatnt 300  
tagggccccc n 311

<210> 10144  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10144  
caggataata accaaagggt ttattaactt ggaaaataaa aattcaataa aacattcaga 60  
ttgggaagat aaaaatgaat aattcttctt gaaagcagat cagaaacata gacgaaaaat 120  
agaaaagata aaaaatatta gagcatcagc ctgggtgtag gggagggtcc aacattgaaa 180  
taataggttg tccagaaaaga aagaatgtaa ataatcaca gaaaatttaa gaaatttccc 240  
atgaaggccc agcacaaggt ttaacacccg ggatacaaca ccatcatgac agttcagaac 300  
accaagaata aagagatctt aaatgtttcc aggaagggtg gataaaaaaa cctaagtcac 360  
atataaaggt acnggaatca gaatggcatc agaaatctca accagcaccg cttgggaagg 420  
gctaggggan gggattatit tccacctggc attctatgct cagccccatt ttggtnangg 480  
ccnaaatncc gactttttta gtcattgcaa aatctcaaaa tattttacaac ctttttacnt 540  
tccaggtctt ttcn 554

<210> 10145  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 10145  
gagagagaga gtctcactct gtcacccaga ctggagtgcg gtggcacgaa cactgctcac 60  
tgcagccctg acctcctggg ctcaagccat ctcccttct cagcctccag agtagctgag 120  
atcacagtcg catgccacca cacatggcta aatttttttt tgggggcggg ggggtagaga 180  
cggggatctc accatgttgc ccaggcaggt gaagtgtat tttataatta cctaaaagtt 240  
atagttttat tggtttgatg gggtagctta tttattttta atcttcaatg tagtagaatg 300  
actttttttg gtgtttttgt cagcattata atcttcagtg ttcttaatga acactttcat 360  
taagtttaat aaatgccttt agcaacaata atatatgcca acaagaatca tgacaaattt 420  
ctacccaact cgttggtaca tttctgattc tggttcaatg aaaatgtctc tcttaaaaat 480  
gcncactttg caaaagcttg gcataattcc ttccaagcc gtgtttacac agnantgaac 540  
cgaaagagtn t 551

<210> 10146

<211> 396  
<212> DNA  
<213> Homo sapiens

<400> 10146  
gagacggagt cttgctctgt cgccgctgga gtgcagtggc gcgatctoga ttcactgcaa 60  
gctctgcctc ctggattcac gccattctcc tgcctcagcc tcccagtag ctgggactac 120  
aggcgccac caccacgccc agctagtttt tttgtatttt ttagtagaga cggggtttca 180  
ccgtgtcagc caggatggtc ttgatctcct gacctcgtga tccgcccacc tcagcctccc 240  
aaagtgtctg gattacaggg gtgagccact gtgtccggcc aggcctctct tcttaattca 300  
acagtcatgt atctcagagg gtttctctct agtgtctctt cctgtttgaa aggaagtggg 360  
acaactgaat gcttcctcaa tttttnttn tnnnnn 396

<210> 10147  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 10147  
ctgttttttg ttttttgttt ttttttccca aagcggctgc agttaggtct tgaaaaagct 60  
taaggattta aaactagaaa aacgcaccaa aagtgtgtgc taaaaaagtt gctccccaat 120  
gagaagtctt ctaccgtcat ggagcttctg tttccacata ctgtccaaga ccaccacagg 180  
gtgcaccgta ccattggggag gtgcttccat attccgcaac aaatgaaact tccatgatga 240  
agatccggaa gaaaagatgt agtgatggaa aaggagccac atattccaac catttaata 300  
actttaattt acatactnac tnacacaggt accagggctt tgaaaataga ttggtcagtc 360  
ctaaaaagca nctttggctt ggcttcnctt ttctggccct tccttttttag ccaaggcagg 420  
ccttccactt tttcantact gggtaagta aggttgngtt aanaanttnc ccaacgcttt 480  
aatctttttt ggcnttggat ttttcaggna aaatt 515

<210> 10148  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10148  
cttttttttt tttgaaacag cgtctcactc tgtcgcccag actgctggag tgcagtggcg 60  
cgatctogac tcaactggcaa cctccacctc ccaggctcaa gcaattctcc tgcctcagcc 120  
tcccagtag ctgggattac aggcgcatgc cactaccgcc cggctaattt ttttagtaga 180  
gacgggggtt cgctatgttg gccaggctcc tgacctcaaa tgatctacco accttggcct 240  
cccaaagtgc tgggattata ggcatgagcc accgtacctt gccctcaatg caactttcta 300  
aaaaatgcct actacaaatc tcttaactaa tgactctctt aggcctgtgc aatacagaat 360  
ttcttttttt ttcttttttt tttnagaca gggctctcgt ctgtcaccga ggctggagt 420  
caatggcaca atcacagctn actggagcct caaactcctg ggctnaggca atcttccacc 480  
ttagcctcca agtagttggg actaccaagn ggcaccaaca tcctggggcaa tttnaaaatt 540  
ttgnanaaac cggg 554

<210> 10149  
<211> 564

09629459.072300

<212> DNA

<213> Homo sapiens

<400> 10149

|             |            |             |              |            |             |     |
|-------------|------------|-------------|--------------|------------|-------------|-----|
| gcctgggtccc | cacatgtttt | gggtttttgtg | acatatattgct | gggcccata  | cctagaaaat  | 60  |
| ggaaggctcc  | gcctggggcc | tgtccacagt  | ggatctgggtg  | acatatctct | gcattaatca  | 120 |
| cctaagagat  | gtggctgtct | tcttctccct  | gaaccctgct   | tacagggaag | attgtgacat  | 180 |
| attgctggca  | tcagcaaaca | gacgatgtgt  | ctctcgtaat   | tgggccttgc | ccacagaaag  | 240 |
| cattttgaca  | tattgctggg | cttattactg  | aagggtgaagg  | gtgactcttg | cagcctgcac  | 300 |
| cctgcanggg  | gttggtaacg | tattcctggc  | tgagtaccca   | ggatgatgtg | ctctctgcc   | 360 |
| tggcccttgt  | gtcaggggaa | agaattgtga  | catattcctg   | gcccagaaat | caagggtgaag | 420 |
| gtgacttttc  | ctgttngctc | cctaccocaca | ggtaaaaact   | gnggacatat | atcttgggtcc | 480 |
| actaacagtg  | caataacgac | tntaatgccc  | acataagcca   | ntngaaagga | actggcagtt  | 540 |
| taactgggat  | ttgaaaaaan | ggtg        |              |            |             | 564 |

<210> 10150

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10150

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gagatggagt | tttgctcgtt  | gcccagctg  | gagtgcaatg | gcgcgatctc | ggctaaccgc | 60  |
| aacctccgcc | tcccggttcc  | aaacgattct | cctgccacag | cctcccaggt | agctggaatt | 120 |
| acaggcatgc | gccaccacgc  | ccggctactt | tttgtatttt | tagtagagat | ggggtttcac | 180 |
| ctgttggcca | ggctgggtctc | caactcctga | cctcaagtga | tccaccgcc  | tcaccctccc | 240 |
| aagggtgctg | gattacaggc  | gtgagccact | gtgcctggcc | tatttattta | ttttattttt | 300 |
| gagacagcgg | gagtatctcc  | caagctggag | tacaatggcg | tgatcttggc | tcactgcaac | 360 |
| ctccacctcc | cgggttcaag  | caagtcttat | gcgtcagcct | cctgagtagc | tgggattata | 420 |
| ggcatgcgtg | accatgcctg  | gctaactttt | ggatttttta | gtanagatgg | ggtttcacca | 480 |
| ttttgaccaa | actggctcga  | actcngact  | caagngactt | ctgccttggg | ctcccaattg | 540 |
| gtgggataca | g           |            |            |            |            | 551 |

<210> 10151

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10151

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| gagatggagt  | ctagctctgt  | tgtccaggct | ggagtgcagt  | gacgcgatct  | cggctcactg  | 60  |
| caacctccac  | ctcccaggtt  | caagcaattc | tcttgactca  | ccctcccga   | cagttgggtat | 120 |
| tacagggtgcc | cgccaccacg  | cccggctaac | gtttgtattt  | ttagtagaga  | cggggtttca  | 180 |
| ccgtgttggc  | cagcctggtc  | tccaactcct | gatctcaagt  | gttccacctg  | cctcggcctc  | 240 |
| ccgaagtgtc  | gggattacag  | gcatgagcta | ctgcacctgg  | totaaagggtg | cattttttgta | 300 |
| atgtcactat  | tatggctctg  | acaataggga | ccagagggtca | tttcatittta | ttattgggtta | 360 |
| totacatttc  | tctctcagt   | tgaacttgc  | tgatatttga  | agaaactggg  | atgtgaggca  | 420 |
| gggaccaatc  | atggaggtgt  | gtctgagacg | gaggggggttc | ctgggaggca  | ggactgatgc  | 480 |
| tggtgcta    | atgctgggaaa | gtcccaggca | ggctancang  | gtggcaccac  | gcttcgatgt  | 540 |
| gaaccgccgn  | antntgcn    |            |             |             |             | 558 |

<210> 10152  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10152  
aaacagagtc tcactcactc tgtcgcccag gctggagtg agtggcatga tctcgggtca 60  
cagcaacctc cacctcccag gttcaagcaa ttctcctgcc tcctactcct cccatgtagc 120  
tgggattaca ggtgtgtacc accatgcctg gctaactttt gtatttttag taaagacggg 180  
gtttcaccat gtcagccagg ctagtcttgc actcctggcc tcaagggatc tgcctacctt 240  
ggcctcccaa agtgctggga ttacagacat gagccaccgc acccagcctg gttgggagaa 300  
tgttctattg attccctagg atgctaggaa gtactcagca aatactaaat gtagcaattc 360  
tcaggggtta ggaggagtto aagataaatg agtattgtaa acacagtagt ccaggtaagt 420  
taagcccca tgccctcttc aggaggcctg gtctctggac acttacagaa gaaaagtcca 480  
cccctcgtat acaggccttc catagcttac ttctcaacag actgnagctt caacctgaaa 540  
cacnnttttn catnttacta a 561

<210> 10153  
<211> 571  
<212> DNA  
<213> Homo sapiens

<400> 10153  
gttttttttt tttttttttt tcccagttag aaaacgtttt atggacacgg aacgctccac 60  
tgtaacgggc aggcagaaca cactcctttc ccaggctcat caattaaaca gaaaacaggg 120  
gagctctcct caccocagcc tggccctgtg ctccccaatg gcccctgcga ggcccctacc 180  
atggcctgcc tgggagacac aaactatgac aggaacacac tggactgata cagaatgagg 240  
ccagacacac ccatgcctgt gcctcccaag agcgacccca ggacagtggg gcagacagag 300  
gtgtctacac tggcagaaat aagggtctga gccacacgtg atgctcggac acaaacggca 360  
cgcagctctg cagcctggcc acacaccctt cgcgtatgac tccactcctc agggttcacg 420  
gggctgtgta cagagactct ctctgtctgac acgatggcca cagcccttc gngtatgact 480  
tcacttcctc agggttacgg gcttgtgtac agagactnnt tntgntgacc catgggcata 540  
tggncctttg gtatgactcc attcttangg t 571

<210> 10154  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 10154  
gaagtgggtc aaagtacatt tttttttaca atgaaagctc atctatgaat ctgataaagg 60  
ccttccttca actggagaca atttgggatg ttgcaaaaca aggtttggga agcccttcta 120  
tggatcgggt ttgtgtccaa gtctgtccct gccaaaagcc atcaaaaagtc tccatcacc 180  
ctgggctcca gtctgtctacc cccagacttg gcagctggga tctctccttc ctggttcata 240  
gttctcatat ccaccctca gcgatggagt tagagtcca ggcccacgtg gtgaacgaga 300  
ttgtgagtgt caagaggga tacgtagttt atgatctgaa gacccaagtc ccaccaccg 360  
aagccgggtc cctgcttcca ggtgacggtg agtcaagtcg cgaggaggcc gacagagggc 420

09629459.072800

<210> 10155  
<211> 559  
<212> DNA  
<213> Homo sapiens

<210> 10156  
<211> 561  
<212> DNA  
<213> Homo sapiens

<210> 10157  
<211> 502  
<212> DNA  
<213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10157 |            |            |            |            |            |     |
| agatggagtc  | ttgttctgtt | gcccaggctg | gaatgcagtg | tcactatttt | ggttcactgc | 60  |
| aacctctgcc  | tcctgggttc | aagcgattct | cctgcgtcag | cctcccagat | agctgggatt | 120 |
| acagatgcac  | aacaccacac | cgggctaatt | ttttgtatit | ttagtagaga | cggggtttca | 180 |
| ctatgttggc  | cagactggtc | tcgaactcct | gacctcgtga | tccacctcc  | ttggcctccc | 240 |
| aaagtgctgg  | gattacaggc | gtgagccacc | gcgcccggcg | gccctgacta | tttttaatga | 300 |



|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gccccgcgc  | aacaggctgg | tgtgaaatgt  | gtgttgaggg | atgctttgng | aagaataagg | 360 |
| natnacagaa | agacagtgc  | ctgatgggtgc | aatgaaagca | acacaggnc  | tcttaacctg | 420 |
| nccaagaaac | ttatggnttt | gggggaacaa  | tcaagngact | taaataccct | ttaagnggaa | 480 |
| tctcatgggt | ttnacaggaa | na          |            |            |            | 502 |

<210> 10158

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10158

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| aaagacagag | tctcactctg  | ttgcccaggc | tggagtgcag | tggcatgac  | ttggctcact | 60  |
| gtaacctcca | cgtcccagg   | tcaagcaatt | ctcctacctc | agaccccaa  | gtaactggga | 120 |
| ctacaggcta | atTTTTgtat  | gtttagtga  | gactgtttcc | ccatgttggo | caggctgggc | 180 |
| tcgatctcct | gatcacacgt  | gatccacca  | cctcggcctc | ccaaagtgt  | gggattacaa | 240 |
| gtgtgagcca | ccatgctcgg  | ccccagaggc | acgtttctaa | gtcctgaatc | tgcatgtctg | 300 |
| gctacaggca | accttccctg  | ccattgacaa | gtgttatcaa | tctgtttgac | ttggctatat | 360 |
| gcataaccaa | gggccctgac  | ttcccatctc | caacaaggaa | ccacttttct | taatgcagtt | 420 |
| ctggagcaaa | tccagatgtt  | tgtcaaagct | tgactgccc  | catgctccct | gacccatccc | 480 |
| ccaaanggct | tntagaacia  | acaataagcc | atggcaagg  | tctggcacgg | anccaagcct | 540 |
| tggaaaaact | agttttggagg | taaggcttgn | ccang      |            |            | 575 |

<210> 10159

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10159

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctcaatcatc | gtttttaatt | ggctttataa | gctaaagtgc | atagtaaaga | caaaaaaagg | 60  |
| aatgcatac  | ataggaaagg | gacacttaga | aaggacctga | gatacctaaa | tgtctgttct | 120 |
| aaggaacact | ggaaggagg  | aatgcagatg | caggcagcag | gcctgggtct | ggcttctggc | 180 |
| ctgggtttgg | agcctgcana | agctgctggc | atgctagctc | taccagggga | acagctccaa | 240 |
| gagggagtgt | tgggatgaag | gatcacactt | gggataggtg | ctgctggtac | caaagtgtat | 300 |
| tttagctcca | ttcagggccc | aggggtaacc | agcagtggca | ccaaacctgt | cancaggtaa | 360 |
| agaaacttct | accatcccaa | agtgcagggt | acaggaaagg | ggtcactcct | taatgacgac | 420 |
| ctgggcctgc | tgcataangc | ccatottatg | caacatgtgg | gctgnccatc | tttcccactt | 480 |
| ttnagggcta | tnnacttggg | caaggtnaan | tggncaac   |            |            | 518 |

<210> 10160

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10160

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| caaatacacat | atggcttctt | tgaccccatc | aaataacttt | attcacacaa | acgtccctta | 60  |
| atttacaaag  | cctcagtcac | tcatacacat | taggggatcc | acagtgttca | aggaacttaa | 120 |
| atataatgta  | tcataccaac | ccaagtaaac | caagtacaaa | aaatattcat | ataaagtgtg | 180 |
| tcacacgtag  | gtcctagatt | accagcttct | gtgcaaaaaa | aggaaatgaa | gaaaaataga | 240 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tttattaact | agtattggaa | actaactttg | tgcttggctt | aaaacctccc | tnacgctcgt | 300 |
| ctgtcccaca | caaattgtta | agaagtcact | gcaatgtact | ccccggctct | gatgaaaaga | 360 |
| agcccctggg | acaaaagatt | ccagtgcccc | tgaagaggct | cccttcctcc | tgngggctct | 420 |
| cctanaaaac | cagngggacg | gcctcctgct | gatccgnnta | tacctanggg | gncc       | 474 |

<210> 10161  
 <211> 446  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| <400> 10161 |             |            |            |            |             |     |
| ccctcaatac  | aacaagttgt  | cacaaatcgt | cacagtgata | cagacttata | agaaaccaat  | 60  |
| gaaacaatac  | aaattaaata  | ctaataaaat | aaatactaca | gaagacagaa | gaacacaggg  | 120 |
| gaatggagtt  | ggggggcgct  | cagagatctg | ggattttctc | atttctcctc | gggacaggcc  | 180 |
| aaggccatcc  | aggggcccagg | tttggctctg | gtcatgaaca | aggaggccag | tccaaggggac | 240 |
| cccggcgcca  | cctcccacca  | cccccgggac | ctcttgtcct | cagacatgga | gttcaacttt  | 300 |
| ccacccccat  | cagcaaccac  | gataacaatg | acgacgacag | ggagatgaga | actaattgta  | 360 |
| accaaaaaaa  | caaaaacagt  | ccagtcgcta | atgctggcat | tgataaggcg | gnttcttgtg  | 420 |
| gnccgtatta  | ttgcctnant  | nttnan     |            |            |             | 446 |

<210> 10162  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 10162 |            |            |             |            |             |     |
| gttaataacc  | aggacatgga | agtctcttgg | aagaactttt  | aaaatttgca | tgattctctc  | 60  |
| cacagatgac  | aagagctcaa | aggcctggtc | acagtggtct  | ccgggaggcc | agtacacacc  | 120 |
| cactgtcctc  | agacagaaac | acacaacaca | agggttagaa  | acagggtttc | aaagacaacc  | 180 |
| ctctgggcca  | ggaatgagga | gtcataaaat | acttcaatta  | gccattaatg | ctttaaaaaag | 240 |
| gcattttttt  | aaaaagtccc | accacaaagg | ctcaacttca  | agtactaatt | taatggttaa  | 300 |
| gttghtaatat | ttctttgaaa | taatattcct | atgggtccaga | aaaaattcac | catatttata  | 360 |
| actgatttca  | tgagcaaaca | ctttcaattg | ntggatgtac  | ataagtcctt | tttcatctaa  | 420 |
| tgagaggaga  | gacctggcct | ncaataagaa | ttcactagaa  | atatatttcc | gtgggactnt  | 480 |
| ttaaacttat  | taagggcctt | gcctccatgg | ntttanntta  | gottgctggc | ctttggntna  | 540 |
| aanggtatcc  | cttatgaaag | gcgg       |             |            |             | 564 |

<210> 10163  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 10163 |            |            |             |            |             |     |
| ctgcaaacga  | gtatttattg | ggcncctgng | atggggccaag | cagtatttng | ggngccaagg  | 60  |
| atncaacagg  | gaaaaacatt | tcctnttttc | ttggagcttg  | cattcttggg | gganagacaa  | 120 |
| atgaataatt  | aangccaagg | agngggaaat | atgagtaana  | aaaaaaaaaa | aagagggggtt | 180 |
| gganaaggga  | aggcctcctg | aggggacatt | tcagccaana  | cctgaatgat | ggancaagcc  | 240 |
| acacggggcct | gagggcagca | gcaggatgga | caggacccaaa | ggtccgtgca | aaggccctga  | 300 |

ggctgaatgg ngtttgagga atgttgaaag gccngtgagg aggggaancc taanaggaat 360  
taanatccnn cag 373

<210> 10164  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 10164  
aaccttgtgc ttgtatagat atatTTTTga gaCGaagtct tGttctgtcg cccaggctgg 60  
agtacagcgg tgcgatctcg gtccctgat acctccgcct cctggattca cgcaattctc 120  
ctgcctcagc ttccctcagta gctggaacta cagggtgtgca ccccccacacc cagctaattt 180  
ttgtatTTTT agtagagacg aggttttggc atgttggcca ggctgggtctt gaactcctga 240  
cctcagggtga tctgcccacc tcaacctccc aaagtgcggg gattacaggt gtgagccacc 300  
gcgcccggcc ttgngttact tttaatgagc caaaagacag taagaaggag caaagcaaaa 360  
cccaccgaag gctctgtggg cagctggccc tgaaagcaca tcctgnctct tgnTTTTacc 420  
aactatgtga gcctttgggc aaaataccta acagtctgaa gccttaagtt ccttattaga 480  
aaaagggaga agatgatctg gatatttctt aagggtaatg gttcttccat ntctgaagg 540  
agg 543

<210> 10165  
<211> 542  
<212> DNA  
<213> Homo sapiens

<400> 10165  
ctctaattctt gtcttcatgc tttatttcat taagttgato ttcaatctct gatatccttt 60  
ctttcacttg atcaattcag ctattgatac ttgtgtatgc ttcatgaaat tcttgggctg 120  
tgttttcagc ttcatcagggt cgtttatgtt ctctctataa ctagttattc tagttagcaa 180  
ttcctctaac cttttatcaa ggttatttagc ttcccttgcat tgggttagag catgcttggt 240  
tagcttggag gattttgtta ttaccacct tctgaagcct acttctgtca attcatcaaa 300  
ctcattctcc atccagtttt ggtcccatto ctggcaagga gttgtaatcc tttggaagat 360  
aagaggattt ctgatttttg caattttcac cttttttatg ctggattttc ctcatcttca 420  
tggtattatc tacctttggt ctttgctggt ggtgacctta ggatgaagtt tttgcatggg 480  
ccgccttttt ggtgagggtga tgctactgct tttggtgnata agttttcctt ctaacagtca 540  
gn 542

<210> 10166  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 10166  
gagagagaga gagacaagga tcttgctctg ttgcctggac tggagtgcag tggcatgato 60  
atggctcact gcaacctcga ctcttggggc tcaaggatcc tcccatctca gcctcccaag 120  
tagccgaggg actacaggca cgtaccacca cgcccagctc ctaaggacat cagctttaag 180  
tacaatgctc caatttcttc ttttcacaag agtgtatcca tgtattactt atgaaattga 240  
aagtttaaaa aagctttgag aaatacaaat ctagggggaa tgtcttgagt gagtgggatt 300

09620469.072800

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgacgactc | aacggattaa | atgtcatgag | ggctgatccc | agctgcctgg | aatgggtctg | 360 |
| ggctgtggaa | ttgcaccgac | aggtgtgcca | gcacagcgct | ggccctggcc | aaggtgtgga | 420 |
| acacactgac | tcccagcact | gntccgaggt | gctgggaacc | ccaagtgcaa | gacattacaa | 480 |
| gacgccacgc | ttgctgccaa | cactgnatcc | cgggaccgga | ccagcgangg | tgttgatn   | 538 |

<210> 10167

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10167

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagtttcaaa | acgagaacat | ttattatttg | ttttttcctc | attaaagttt | cacaaataaa | 60  |
| gcacagcaag | acttgtctgc | agacacacag | gaggcaaacg | gacagcccgt | caaccagaga | 120 |
| tggagacgaa | ggccagcggt | gctctcacag | ggcagcgctt | ctcagaaccc | ctggccccc  | 180 |
| tcgtgccaag | gctggcctgt | gtcaggcctc | gcccacgcgc | ccttatgaca | aatagaggcc | 240 |
| ggtgccaaag | aggtggctac | agagcagggg | caaggaagtt | atcctcatgt | tctgataatg | 300 |
| accctgcaaa | tcccacccca | ccctnaggca | cctncgtcta | anggtgtcgg | ttactccagg | 360 |
| taaggaggtt | cccaggangg | ccgtgttttc | cctaaggctg | atgaaacttg | ctccgacaag | 420 |
| ccaggccact | gggaggcacc | tcaggatgga | aaagatgctg | gaggctttgc | tggctttcag | 480 |
| gatgcccga  | gccccacggg | ggccaaangg | gaagaangaa | agcgantntt | aagacagatt | 540 |
| ggtgntggt  |            |            |            |            |            | 549 |

<210> 10168

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10168

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| caatgtccac | atcttcatat | ttattttccac | agtgttaaca | tggaatagac | ttagcaacca | 60  |
| ttgcagagaa | aaaaaaaaat | ctctcatttg  | tttatgagtt | aaatcctgta | acaatgaatt | 120 |
| tcaaccattc | gaagtcttct | gctgcttaac  | atttactgaa | tcaaaggctg | aagtaaattg | 180 |
| actctcatct | aggtctcaga | aatcacacag  | ctggcctcgt | gatgtattta | cgatgggatt | 240 |
| taacttctaa | tacaaggcaa | gtttgacagt  | tacagccaat | gaagtgcacg | actctgtaca | 300 |
| tggatttctt | gacctaacat | tcaaaaggac  | atttcatagt | actagttaa  | ttctgatctc | 360 |
| tctctagaag | gcagaaacca | catcccacac  | tcctatgcaa | tttgttatnt | tggatttgta | 420 |
| aagtaaata  | ataagaaggg | gtggaggcat  | aaagaaaatc | tagtttctgg | ctgggcangg | 480 |
| tggttcacgc | ttgnaatccc | gcncctttggg | aggccaaggc | ggntggatca | cnaggnn    | 537 |

<210> 10169

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10169

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacagggt | cttactctgt | caccagggt  | gaggtgcagt | ggatctatct | cggctcactg | 60  |
| cagccttgac | ctcccagggt | caggtgatca | ttccacctca | gcctcctgag | tagttgggac | 120 |
| tataggcaca | tggcaccacg | tccagctagt | ttttgtatnt | tttttgtaga | gacgagggtt | 180 |
| cgccatgttg | ccccggctag | gcttgaactc | ctggcctcaa | gcgatccact | cgcctcggcc | 240 |

09629469.072800

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| tcccaaagng | ctagaattac | aggcatgagg | tactgagcct  | ggcttgactt | ataattctga | 300 |
| tgaaaatgtt | caatgtcaac | ttaagaatgg | gcaaggggagc | acatgggctt | ttggaattct | 360 |
| tttttttttt | tgagacggag | tcttgctctg | tcacccaggc  | tggantgcan | tggcgtgac  | 420 |
| tcggctcact | gnaaccttcg | cttcgggtt  | caagcgattc  | tcctgnctaa | ccttccaagt | 480 |
| actgagaata | caggcatgca | ccaacacgcc | cagctaattt  | gganttttag | ganaaanggg | 540 |
| gg         |            |            |             |            |            | 542 |

<210> 10170

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10170

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| aaaaacatga  | gagcaaattg | tacatatatc | aatctccctt | gcttgtcttt | aagaaagggc | 60  |
| cgttcatagc  | atttggcaca | aacctcttat | ttctgttgca | ttagcatgat | tttaaataag | 120 |
| aagggaaaata | aacatttgat | ttatttcatg | cttcctaagt | ttctgggcag | ggacatgcct | 180 |
| tactctttta  | gaaaccaatt | ccaagatgac | atctgactgc | atttttctgt | tggtccgaac | 240 |
| ttctaaacaa  | acactcataa | agtaagttta | aacaatttgg | agatgtatga | ggaaaaagtc | 300 |
| ttgttctggt  | cagttcagac | tttgttaaaa | aaaaaaaaaa | aaaangaaaa | gaaaaaaatg | 360 |
| ctcatttcac  | atgtccatga | tcttcatgga | ttttttttta | gcttatttga | gtttgattaa | 420 |
| gggacaaaaa  | agaagaggcg | gcaagttttc | cctatctctt | tggagtgttt | cgctcaagga | 480 |
| aattttgctc  | atcaaggtca | gctacatacn | cagnggacac | atnaaaggca | aactgggggg | 540 |
| ctccgaggat  | acaaagg    |            |            |            |            | 557 |

<210> 10171

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10171

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| agtcctagat | acaattcctt  | tattatcatt | atcatgcccc | ctagcacatg  | aagctgggct | 60  |
| tccacctaga | tcagctaagg  | acaggggtat | gtttacaatg | agaacaattt  | ctctatgcgc | 120 |
| attaggttaa | gacctcttct  | ctgtttctag | aatactgtga | tgactcacat  | ccatgggcca | 180 |
| gctgcttcca | ggaatccatc  | tggcctcaac | aacattgggc | tgcttggaat  | aacggctggc | 240 |
| acttgcacag | ggcagggtat  | ggggagcagg | cctcagggtc | ataagcagga  | ctgggcactg | 300 |
| ctgaaatagg | ggaagggggc  | agccaacatg | tagcaggttc | tccaaggca   | tgtagaagtt | 360 |
| ggtgggaaaa | tggggctggg  | gtgtgtaact | tgtcccttcc | caggaaggga  | cccaggcacc | 420 |
| tggtctcctg | gccaaagatca | caggcgatcc | aagagtcctc | caggggaagaa | caagactgna | 480 |
| cagacgcaca | gcanaaangc  | tttcttggtc | ggncatgaac | tgccatggng  | acacgcttna | 540 |
| ttctagcccc | caagg       |            |            |             |            | 556 |

<210> 10172

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10172

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| aaaaaacaaa | gtgtgcattt | tccttactac | gtttagtcag | gaatatgcgg | tcattttatt | 60 |
|------------|------------|------------|------------|------------|------------|----|

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggttactggg | tttctcatac | aaacagatat | aatatcactt | ttaagagaaa | tgtacacaag | 120 |
| gaagtaacca | tagtaccact | tattagtggg | ggcctctggg | tacataaatg | ngtcctccca | 180 |
| aatagtcatc | atacattcaa | tgtattgggt | agggccaaaa | tccctaaacc | acctntcaac | 240 |
| aaaacattac | acctttgggt | ctttattatg | caaaaattac | aaattggcaa | attcaataag | 300 |
| aggatgcaat | gggatttgag | catnacagcc | aaattgctta | tactaaaaaa | ttttaaatc  | 360 |
| ttanaatctt | ttttccttaa | acctttncct | ttcccacctt | acatnagaaa | aatggatgct | 420 |
| taaaacnaaa | cnggaggagc | aantaaccaa | ccaaaaaacc | ctntccccaa | ng         | 472 |

<210> 10173

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10173

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ccatggctta | cttttatttt | ttattataaa  | aacacatata | agagttttaa | gaaataacga | 60  |
| atataagaca | aatcaaaacc | atgggtgagtt | attaaaccca | ttttctatat | acaaatacta | 120 |
| aaattcccaa | agnggaatat | catccaatgt  | gagacacatc | atagcacggg | ccatatgtac | 180 |
| acggcacaca | gagctctgcc | tgcgctcatc  | tgtgaattgc | tcattacatg | tcactgataa | 240 |
| aaaaatctgc | aagggaactt | ctactcttca  | gttctcctct | tcctgatgca | ttgtcacata | 300 |
| tttttaagga | actttaggga | tatgaagaaa  | atgcattaaa | gtgggtttct | gctaagggt  | 360 |
| ctgcatgttt | tgctctgac  | aattacgcac  | tacatcttga | gaaaaacttt | tgcaactcat | 420 |
| ttccagcaaa | gatagcagaa | aactctangt  | ttttgccaat | taattttttc | ctagcctcat | 480 |
| tggaacccaa | gtccaacacc | accggttang  | gacccaatca | tggtttttat | attgggaagt | 540 |
| caattntaaa | aggcccctca | att         |            |            |            | 563 |

<210> 10174

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10174

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| gtttttgttt | ttttttgaga | tggagtcttg | ttctttggca  | aggctggagt | gcagtgggtg  | 60  |
| aatctcggct | cgctgcaacc | tccaccaccc | gggttcaagc  | gattccctc  | cctcagcctc  | 120 |
| ccaagtagct | gggactacag | gcgcccgcga | ccacgcctgg  | cttaattttt | tctatttttag | 180 |
| tagagacagg | gtttcaccat | gttggccagg | atgggtctcaa | tctcctgacc | tcgttatcca  | 240 |
| ccggcctcga | cctcccaaaa | tgcttggaat | gcaggcatga  | accaccgtgc | ccagcctcat  | 300 |
| tagttcttaa | agtcactaat | agcattatit | tatgcccacg  | aaccagtaag | tcagaccaa   | 360 |
| gcctgaaata | gtgttttctg | aaaaatggaa | aaggaaatat  | aagaatttta | aaaacaaacc  | 420 |
| ttgaaatcag | tttctcaagt | taaaattctg | atggatgtca  | caaatagtaa | gggcttcctt  | 480 |
| actgagctct | ggcatctgnt | ttggctttta | tgcatactgg  | gatttgggaa | gctgctgctc  | 540 |
| aacattctag | cccatttnca | gaggggnc   |             |            |             | 568 |

<210> 10175

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10175

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| ggagctggag | ccttgctctg  | tcacccagac | tgaagttcag | tggcacaatc  | tgggctcact | 60  |
| gcaacctcca | tctcctgggt  | tcaagcattt | ctcctgcctc | agcctcccaa  | gtagctggga | 120 |
| tttcagcacc | tgccaccacg  | cccagctgat | ttttgtattt | ttagtcaaga  | tgagattttt | 180 |
| gccatgttgg | cgggctgggt  | cttgaactcc | tgacctcaaa | tgatccgcct  | gcctcagcct | 240 |
| cctaaagtgc | tggtgattata | ggcatgagcc | accacacctg | gcctttttct  | tctgtttcta | 300 |
| actgttccct | tttatttccc  | tatggagcat | ctactgagcc | ccagcccagag | agtagaaaca | 360 |
| aacctgctgg | ctgctctcaa  | ggcacttata | gtccagtagg | ggagacggca  | ctnaccactc | 420 |
| agtcacacaa | atgaccgtcg  | aattgtgacc | caccctaagg | caattggctt  | ttctgaggac | 480 |
| taaggaggga | cnaggagcta  | aggaggaccc | ctttatgcca | antaaaacct  | ctggggaact | 540 |
| t          |             |            |            |             |            | 541 |

<210> 10176

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10176

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| cttaaaataa | aattaaggct | caaatgttct | attaagctct | cattgcttat  | gtatattata  | 60  |
| ttaaggctta | taaatgcacc | tggtaaatta | aattcacctc | ggattgaatt  | aacacctgct  | 120 |
| atatgagtta | tttgctttat | gtaatcagta | atctcaagg  | ttctcctctt  | tctctggaaa  | 180 |
| cacaatttaa | atattaacct | aatcttttaa | ctgcggctgc | ttctttctga  | catttggaaa  | 240 |
| ctggtcatcc | atacaaaaaa | aggcaaatat | ggatatatta | atgaaaaggc  | agcttctcaa  | 300 |
| aaatcttaaa | gtatgtaact | caatgaattg | ggaaggaaaa | tgataaaaagt | agcaggaaaag | 360 |
| tcaagtcttt | gtgncacttt | ctagggaaaa | caatgctgg  | catctgccaa  | caacaccttc  | 420 |
| agtctgagaa | cctgctgaag | ttgactggca | attgccaaaa | agtctttggg  | tttcttcatt  | 480 |
| tgaatctctg | gaaaaancct | gggaagctgc | catgcogtgc | aaaaaaattt  | taatttttaa  | 540 |
| aangc      |            |            |            |             |             | 545 |

<210> 10177

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10177

|            |            |             |            |             |             |     |
|------------|------------|-------------|------------|-------------|-------------|-----|
| caataaatgt | atagaaattg | ttttattcaa  | agactaaggg | ggaaaggggtg | agaaattaag  | 60  |
| tctagcagta | caattataga | acctctgggtg | tattctcatg | ggaaaattaa  | tgtttttaggt | 120 |
| aaaatggaga | cgacagtagt | tacgacaaat  | acttgagaaa | agcctatgaa  | attactgact  | 180 |
| ttggtagtcc | agccaaacat | ttgcttcagg  | aaaagcatcc | agaaatataa  | tgatttaggg  | 240 |
| atatcaagg  | atactatata | aagcattgtt  | gtatatatta | tttctctttt  | tcccttggga  | 300 |
| ggtaatatct | gaattattat | cagactccta  | atgaggaaac | actctgagaa  | gtgagaagcc  | 360 |
| tgcttgtgt  | caaantgggt | aaaatcagag  | agacaaaggc | gttagggctc  | gactcaggnc  | 420 |
| ctctgacttg | cagggttcta | ttgaagtgn   | caccttgctt | gagctttnaa  | gottaaggaa  | 480 |
| tgggcnagg  | aataccctgg | ggncaattcnc | nccggaa    |             |             | 517 |

<210> 10178

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10178

|            |             |             |             |             |            |     |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| gctttgactc | atattattaaa | aaaggcttca  | tgtaaaccctt | gcatgagaag  | atgtccatta | 60  |
| cttactcagg | atagagggca  | aagagattat  | atacaaaaag  | tattttcaag  | gactatcttg | 120 |
| ttcttccttt | ataagaagtt  | gaattttaatt | tttgaagtaa  | ttacttagga  | agaaatgcag | 180 |
| aggagtcca  | cagaaaaaga  | tggaaccag   | aatgatattc  | cgtcagccag  | atttttaaaa | 240 |
| ttccttcact | ctgaaatttc  | ttctttgtca  | gctaaaaactg | ttttctgggt  | cagtttcctt | 300 |
| aggtgagcct | tgttcacatt  | cagtatcaaa  | accagctgac  | atattattatt | ttggtttcat | 360 |
| tttccttttt | gcggctttat  | ggttctttcg  | acaatccata  | cgcaggttgg  | ttggtctggc | 420 |
| ctccaagaag | ttcctgctca  | tattacttcc  | tactcctntc  | cagaataagt  | cagaaccttg | 480 |
| aagtcgtcat | catcttaggg  | gaaaaggaaa  | atctangggc  | ccttttcaag  | aatgagctn  | 539 |

<210> 10179

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10179

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gagatggagt | ttctctcttg | tgcaccaggc | tggagtgcag | tggcacgctc  | ttggctccct | 60  |
| gcaacctcca | tctccctggg | tccaagccat | tctcctgcct | cagcctcccg  | agtagctggg | 120 |
| attacaggca | cccgtcacca | tgcccggtca | atttttgtat | ttttagtaga  | gacagggttt | 180 |
| caccacgtta | gccaggctga | tcttgaactc | ctgacttcag | gtgatccttc  | tgccgcggcc | 240 |
| tcccagagt  | ctgggattac | agatgtaagc | caccgtgccc | ggccttctat  | aagatcacag | 300 |
| aattgataag | ggccagagct | gggattcgaa | acaagggctg | cttatctcta  | gagccctggc | 360 |
| ccttgtcccc | tcacctttgt | ggaggtgggg | tttagctgga | gctgaagggt  | agtctgccct | 420 |
| caggtagaag | catggtgggg | agagaaccan | ggagtanggg | tgggggtgtna | anaccttccc | 480 |
| ttcacaattn | cttgangagt | ttttnggggg | ctttatt    |             |            | 517 |

<210> 10180

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10180

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aacattggga | cacaggttta | ttgtgatgat | ttcttgaatg | aaataagtta | gaagagatgt | 60  |
| gtcaccaatg | acaaccattc | accaagctct | gtgtaagaat | tttcatgtia | tctcagttaa | 120 |
| tgttcccaga | gacacttgag | acggggatca | acccattttt | taaaatttga | gacagggtct | 180 |
| tgctgtcacc | caggctggaa | tgccgtgaca | tgatcatagc | tactatagc  | ctcaacctcc | 240 |
| tgggttcaag | caatccttct | gcctcagcct | ccctagtaac | taccatgccc | ggctaatttt | 300 |
| tatttttttt | tgtggagatg | ggttcttggc | atgttgccca | ggatggcctc | gaactcctgg | 360 |
| cctcaaggga | tcctcctgcc | ttggcctcca | aagtgttagg | attataggcg | tgagccactg | 420 |
| nacctggnct | naaccccant | tttnangnga | cttggcttaa | aga        |            | 463 |

<210> 10181

<211> 484

<212> DNA

<213> Homo sapiens



<400> 10181

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cacagaaccc | actcaggatt | ctttctggaa  | acaacctggg | ggactttgat | gagaggctca | 60  |
| agccttctag | ctacctcaca | ggtcagactc  | tgggccccag | gaaccccttg | ccctgggcct | 120 |
| gccctcaggg | aatgattcat | aattaagaga  | aaagccttgt | gctttatgtt | tcttcctcct | 180 |
| cctctaagca | ggcggcaggg | gaagggtggag | gggttggaa  | gggaatgggg | ggaaccgact | 240 |
| ggagactggg | atittgattg | agaggcccca  | ttatccacac | tcttaaaaaa | ataaccgaat | 300 |
| cttttccttt | tttatcttga | ccaatctcat  | ttcacgctcc | agaagaggaa | gggaggagg  | 360 |
| gagggagtcc | ggggccagga | gggacagagg  | agtcagtatt | ctgnattttc | aacgctgcat | 420 |
| taagcacatn | gncacggtaa | ccaggcagca  | acaaagtgcc | ancttaacan | gntnccaagg | 480 |
| gagc       |            |             |            |            |            | 484 |

<210> 10182

<211> 355

<212> DNA

<213> Homo sapiens

<400> 10182

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| atccaaagt  | tcatccattt | tataatcaat | attagtaaaa  | aagaccaaga | cacatgggct | 60  |
| gggtgcgng  | gctcatgcct | gtaattacag | cactttggga  | ggccgaggng | ggcgatcac  | 120 |
| ctgaggncag | gaattcgaga | ccagcctggc | caacagggtg  | anaccccatn | tntacttaaa | 180 |
| acacaaaaat | tagcagggca | tggnggngca | cacctgttgn  | cccagctact | tgggaggctg | 240 |
| aaacnggaga | atcttttgaa | cccgggaggc | ggagggttgca | gcgagccaag | atcacnccac | 300 |
| tgnactcaa  | cctgggtgac | agactgngac | tctgncaaaa  | acaaaaacnn | aacnn      | 355 |

<210> 10183

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10183

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagggcaagt | cttgctctgt | cacccaggct | ggaatgcagt | ggcacgattt | cagctcactg | 60  |
| caacctctgc | ctcccagggt | caagcgattc | ttgtgcctca | gcctctcaag | tagctgcaat | 120 |
| taacaggtgt | gtgccaccat | gcctggctaa | tttttngct  | tttagtagag | atggggtgtc | 180 |
| accatgttgc | ccaggctggn | ctggaacttc | tgggctcaag | tgatccacct | gcttcagctt | 240 |
| cccaaagtgc | tgggattaca | ggcgtgagcc | actgcgcccg | gcctntatca | cacttcttat | 300 |
| gccacccagg | taagcatttt | catggggctg | gottctntnc | ctttttggag | aacacggatc | 360 |
| aagggctgaa | actttggaat | ctacagnacc | agccataatc | aacccctttt | tccacaanac | 420 |
| acacaaggca | agcatgcctg | gacccctttt | gacacanggg | ncacatacat | gccctaatta | 480 |
| cttgggagag | atntncatac | ctttnttntg | ggggggcnca | cgttcctttt | caaggccaaa | 540 |

<210> 10184

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10184

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aaatagggac | aaggtctcac | tatacttccc | agactgggtct | ccaactcctg | gcttcaagca | 60  |
| attctcctgc | ctcagcctcc | caaaatgctg | gaattacaag  | cataagccac | cccacctggc | 120 |

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cagtttcagt | ctattattat | tattattatt  | ataatttaag | ttctggaata | catgtgcaga | 180 |
| acgtgcaggt | tacataggta | tacatgtgct  | aagggtgttt | gctgcaccca | tcgacctgtc | 240 |
| atctacattg | ggtattttct | ctaattgctat | ccctccccta | gtctcccatt | ccctgacagg | 300 |
| ccctggtgtg | tgatgttccc | ctccctgtgt  | ccatgtgttc | tcactgntca | attcccactg | 360 |
| atgagtgaga | acatgtggng | ttnggtttct  | ggccttgnga | aaagtttgct | gagaatgata | 420 |
| gtttccagct | ttatccattt | cctggaaaang | acatgaccgg | anccttttta | atggcnggat | 480 |
| aagnattcca | tgggatatac | gtgccggaat  | ttcnttaatc | ccggctatcc | tnga       | 534 |

<210> 10185

<211> 528

<212> DNA

<213> Homo sapiens

<400> 10185

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| caaacaaata | agtttttatng | gcatntaaaa  | acaaaattca | cccaacattg | aaacgtncctt | 60  |
| taatatttat | gttggtgttt  | tcttgttttct | tttttactca | ctgcagtatg | aggaacaaat  | 120 |
| cacaaacnct | tactttggan  | aaacaganac  | cgtagngtan | attttacaaa | atcacttttt  | 180 |
| aaaatctctg | tattgggctc  | ctcaaatacc  | tanagccagt | ctttgcataa | aatatcacag  | 240 |
| ctttatctat | aaccttaaaa  | ttctgcagca  | gcctaaagat | atggataaga | tntaccacca  | 300 |
| cttgctattc | tgaaatatnc  | ctattaccat  | atccaacctc | angatagtat | ctaaaaaatt  | 360 |
| ctttcttcca | taggaagtct  | ctgacaagct  | gntattcatt | tccttgacgt | taaaagaatc  | 420 |
| tggggccaac | atttggtatt  | tatccgaaaa  | aaattnaaaa | aaggttacco | accatggtca  | 480 |
| ttttaagnac | aatnggtttt  | ccaggnaant  | gngcccatit | ttttnagg   |             | 528 |

<210> 10186

<211> 503

<212> DNA

<213> Homo sapiens

<400> 10186

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagggctggg | gaaaatctta | atggccaaaa | cataaaacaa | acctgcgtgc | acacaaacga | 60  |
| gacacaatta | cagaaagcat | agagcctggc | tctccccctg | gcctcaaatc | cccaggtttt | 120 |
| gagagtcatt | acttctgggg | gatggtgact | agaagggtgt | gggagggagg | cttctaggag | 180 |
| ctggtgatgg | tttggtggtt | tcttcacttg | ggagcctgct | cctgggtgag | tgcgggtgaa | 240 |
| aagtcatcca | gcaagacctt | cgctcttctc | tgcaggcagg | taggttatcc | ttgagccatg | 300 |
| gggatgacag | aaagctccca | ctgctcanca | gggggtcccg | ctcctgcgca | ggtctctacg | 360 |
| gactctnttc | tgtgacctgg | gcaatgocca | actnttttca | atattcaagc | tgtggcgtnc | 420 |
| ancaaggccg | ttatgggaag | gaangggcaa | aaggatcaaa | gtaattggga | accantgaca | 480 |
| ncgggttaag | ggtnatgcc  | naa        |            |            |            | 503 |

<210> 10187

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10187

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atcatcaagt | cttaccattt | atttctttat | ggggttaaac | aagagcagag | aggcctntgc | 60  |
| cccacaatgc | aacaaaacag | aaagcagtac | atatacagag | actntcaccg | aaacacagag | 120 |



|            |            |             |           |             |            |     |
|------------|------------|-------------|-----------|-------------|------------|-----|
| tacaggcatg | tgccactgtg | cctggctaata | ttttgtat  | tttagtagaga | cgggggtttt | 180 |
| ccatgttgg  | caggctggnc | tnaaactcaa  | actcctgac | ccagntgac   | cgnccgcctt | 240 |
| ggcttcccaa | atngctggga | ttacaggctn  | tgagccacc |             |            | 279 |

<210> 10191  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10191 |            |            |            |            |            |     |
| agattcatct  | ttttaatgac | atcctaaaat | tcagaggagg | ggccagcggg | acctctgggc | 60  |
| tcagcggctg  | tgaaggagg  | acccgcaaca | cccgttaagg | caggtaattg | caagaaggca | 120 |
| ctcgcgaggg  | ggacttcaag | cccctcttct | atttcttcat | ataaaatcag | ggggatgggg | 180 |
| aaagctccaa  | gggcgaggga | agcagagaga | gtttctctcc | cagcctatgg | aataaggaag | 240 |
| aggtgaggaa  | ggggtgggtg | ctgggagcaa | gaaactgcc  | agtcaggac  | ctgccctcac | 300 |
| acagacacac  | acagcccgc  | cctgccctcc | ctctaaaatc | tgcatccggg | gctgtaagga | 360 |
| agccccgtgt  | tcaagcccc  | atctcttctc | ccttctagct | ggtaccaagt | tggtaatcac | 420 |
| cactctgggt  | gatgtagcga | acccagggca | nggcctggta | ccacttttct | taatgatcnt | 480 |
| catgtatcgg  | acctggatcc | agaaaacggt | gaaattnggg | gatctnaact | tgaccnatt  | 540 |
| ggggggggccg | gcctt      |            |            |            |            | 555 |

<210> 10192  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |             |     |
|-------------|------------|-------------|------------|------------|-------------|-----|
| <400> 10192 |            |             |            |            |             |     |
| ccaagtcttg  | ccctgtcgcc | caggctggag  | tgcaatggcg | caatctcggc | tcaactgcaac | 60  |
| ctctgccctc  | tgggttcaag | caattctcct  | gcctcaccct | cccagagtac | tgggactaca  | 120 |
| ggcatgtacc  | accatgccc  | gctaattttt  | gtatttttag | tagacatggg | gtttcaccat  | 180 |
| gttggccagg  | ctggtctcaa | actcctgacc  | ttgggatcca | cccaccttgg | cctcctaaag  | 240 |
| tgctgggatt  | acaggcatga | gacaccacgc  | ctggccggta | gacccaaatc | ttaaagcaca  | 300 |
| tactctactc  | tagtgggttc | taaacttttag | catgcatcag | aatcatttgt | agactttgtt  | 360 |
| aaaacacaga  | gttttggtta | cactcctacg  | gttttttaat | caagtaggtc | tgggggtggag | 420 |
| gctgacagct  | agagtttcta | acaagttccc  | aagcccaact | attgctggtc | canaaacccc  | 480 |
| actttgagaa  | ccactggnet | ancnccaaca  | gnngtcaata | gnntacnggg | ttat        | 534 |

<210> 10193  
 <211> 486  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |             |     |
|-------------|-------------|------------|------------|------------|-------------|-----|
| <400> 10193 |             |            |            |            |             |     |
| ganacagagt  | ctagctctat  | tgccccaggc | tgagtgagc  | ngggacgac  | tcggctcact  | 60  |
| gcaacctntg  | cctcctgggt  | tcaagcgatt | ctcctgcctt | agcctcctga | gtagctggga  | 120 |
| ttacagggtc  | ccgccaccgn  | gtccggataa | tttttggtt  | tttagtaaag | atgggggnatc | 180 |
| atcaaatttg  | ncaggctggg  | ctcgaattcc | tgacctcagg | ngatccacct | gcctcggcct  | 240 |
| cccaaagtgc  | tgggggttaca | ggcatgagcc | actgcaccta | gccagtcagg | gcacttttaa  | 300 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agctggaatg | tcaaacagtg | gatggtgaca | gcaggcaggg | aaggggccag | ctgcaaggca | 360 |
| ggcccaggca | ggaggccggc | agcaggagga | acaggatgac | acccttggga | agcagttggt | 420 |
| gatgggcagg | gcacacagat | ggccctgctg | anggcTTTT  | cgtacgaang | gtcttccatc | 480 |
| tccaaggcna | cacgtgaagt | cttntccaac | tgggcattgg | gcttgactgc | cgccccgat  | 540 |
| cttcaagang | gncaaaaa   |            |            |            |            | 558 |

<210> 10197

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10197

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gcaacacaag | tcaatcttta | ttgaaaactg  | cagtattaat | acataacaat | tcttgttaca | 60  |
| ataaacgtgc | ttttgagatt | tttaaactctg | agctcatctc | atcagattgc | ataaaaaatt | 120 |
| aaaatagtat | caattgacac | ctaactgaac  | tggctcagga | tggaaattcc | attccttggc | 180 |
| atggatacgt | aagttcaatg | cagagggtgag | ggatgccttt | aacactggaa | gacaatgctg | 240 |
| acttagctta | aaaaaagtac | cgagagaacg  | gtgtaaaaaa | cggatattta | aatcattttt | 300 |
| taaaaaaaca | aaaaggaacc | gtttcttctt  | tagttacaat | ccatgaggct | ctctagggcc | 360 |
| tctccgtgtg | gccagcacag | caaccctgct  | aggagcacaa | acggctggcc | tgagatctgg | 420 |
| cccagctgcc | ttgcccactg | gtctgcatag  | ggactcatgg | gcacagcctg | tgggtangan | 480 |
| gganaccctg | ncatgnncan | cctggggagc  |            |            |            | 509 |

<210> 10198

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10198

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| agtagacaca | gggtcttgct | atgttgccaa  | ggctagtctc | aaactcctgg | cttcaaagga | 60  |
| ccttcccatc | tcaacctccc | aagcaaccag  | cattacagag | atgagcagct | gtgcctggct | 120 |
| gaattctttt | tttttttttt | tttttttgaga | cagggtctca | atccgtctcc | caggctggag | 180 |
| tgcaatggca | caatctcagc | tacttgcaac  | ctccacctcc | tgggttcaag | tgattttcct | 240 |
| gcctcagcct | ccctagtagt | tgggattaca  | ggcactcgcc | accgcaacca | gctaactttt | 300 |
| gtattttag  | tagagacagg | gtttcaccac  | gttggccagg | ctggtctcaa | actcctgacc | 360 |
| tcaggatgac | tgctgcctc  | ggcctcccaa  | agtgtgaga  | ttccggcgtg | agccactgac | 420 |
| ccggcctgaa | ttcatttttg | gataaaaaatc | caaaggagtt | tataatgcct | gcaataaaaa | 480 |
| tcattcntat | nccttttaac | atcttantgg  | ccaaacacat | nattngcaat | taaaaataac | 540 |
| ccccnaaaaa | aatt       |             |            |            |            | 554 |

<210> 10199

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10199

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gacacagagt  | cttgctctgt | caccaggct  | ggagtgcagn | ggcacaatct | cagctcactg | 60  |
| caacctccac  | ctcctgggtt | caagcgattc | tcctgccgca | gcctcctgag | tagctgggat | 120 |
| tacagggtgcc | tgccaccaca | cctggctatt | ttttttttta | tgagactgag | tttcaactct | 180 |



|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gctttgaagc | acagcacaca | aaatgaaaca | atttaaaacc  | ccttcataaa | aatgggaaaa | 120 |
| attcccaggc | caaaggaaaa | aaaaagcctt | cacagaaaga  | gactgacact | cgactcccc  | 180 |
| cctgctgagg | tgtggccagt | gagtctgggt | gtgagctgcc  | acctgacagc | cagctctgag | 240 |
| gtatcaaagg | agctccgagt | gcaagttgaa | gacttcagca  | agccagcccc | cgccccccac | 300 |
| acccgttcat | aggcagtcgg | aatgcagatc | tcgggtggcag | gtgggctctt | gcacaagtcc | 360 |
| agagtgataa | aacaatcaca | gatgactaaa | tgccanggac  | tgggtgnaag | caggtagtgg | 420 |
| cttgagctn  | gggcacttct | gncnttatta | gacctgggtg  | nacctgacg  | tgaggagaac | 480 |
| ggagcacagt | tccttccng  | cttctgcgg  | gcttggttaag | gngngcatgg | ttgancctgg | 540 |
| caagcatttg | gattttggag | tctcactctt | aggccaa     |            |            | 577 |

<210> 10203

<211> 590

<212> DNA

<213> Homo sapiens

<400> 10203

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ctctttcttt | ctctctctcc | ttctctctct | ctcttttatt | tgttttattta | tttatttttt | 60  |
| tgccctttgt | gcttctcctt | ttcctgcctg | aaatgtaaac | atgggtggctg | gagttccagc | 120 |
| acgtctagag | aacatgaaag | tggcagagca | aaggagcaga | aagctagaaa  | gagctggatt | 180 |
| ccctgattca | caatggtacc | ccggtaccct | aaaccagccc | tgggttcctt  | atctctgtat | 240 |
| tttctttcac | atgacagaga | aataaaccct | tgtctctgtt | attatttgga  | ttcgttggtt | 300 |
| catgcagaaa | cattaaatct | tgactgaata | ccaacaccta | atcagaggca  | gaagccagct | 360 |
| accacactc  | tgaccccaga | gtcatagatt | cacagagcta | ttgccttaat  | ggatcatcct | 420 |
| cacacctagt | tcacaagatc | aacgacaggc | tggcagctta | aagaattccc  | gggggaacaa | 480 |
| ggcattggaa | aagtcaaggt | tcctggggcc | acccatccct | angggatttg  | gattctatga | 540 |
| aggcttgggt | gaaggttggg | aaaggaattt | ttaaaaactt | tnccnggggg  |            | 590 |

<210> 10204

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10204

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| aaactagatt  | tttattttta | ttatatattcc | atgtgaagac | atcacccaaa  | tgtagcgga  | 60  |
| gcaaaagact  | ttatggtcag | ataccaaagg  | cgtacagttg | atcccacttt  | ggaataaatg | 120 |
| cccagaaggt  | aataagcatt | atcagttagt  | gagagctcta | ggcacaaaaat | aagttctcat | 180 |
| tcagaaaagt  | gacagagata | tgaagcagtg  | aaacatatag | ctttaaaaaac | tggaaatcat | 240 |
| tcatgacatt  | tgttttcaaa | gtaaacatta  | tctgcatttc | aagaactgta  | attttcaaaa | 300 |
| gtagaatcag  | gcctgattaa | gtaatatatta | tgacttacag | ataaaattca  | aaaataaaaa | 360 |
| tgaaaaactct | tctggccctt | gaagagatag  | aaaactatat | ttttttccct  | gnatggccca | 420 |
| gagattatca  | gtattcatcc | ctaaggctgc  | ttaaaaaaag | gtattttnaa  | tcggctttct | 480 |
| ggtctgcnct  | tttacaatgc | aaacgggtta  | tatggcctct | tgctgagtga  | aaggangata | 540 |
| attcctgctn  | aatgaaagaa | ctccatttcc  |            |             |            | 570 |

<210> 10205

<211> 469

<212> DNA

<213> Homo sapiens

000220"69462960



<400> 10205

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| acaattaggg | tcatttaact | atttaattgc | tttttgagat | tattgctgaa | attaggaagg | 60  |
| gagcattgaa | atgggaaggg | ggaggttaga | gaagacagag | atttaaaaga | agcaagtacc | 120 |
| attttccaag | tataaaactc | gtaatattaa | aagtgcata  | gcagtatatt | cacatgacta | 180 |
| cttaagtcta | atgcagaaac | aagacagtac | agtttttgca | gaggccgatg | tgacatctgc | 240 |
| atgcaacatg | atactattaa | gtgtctctac | ccacctctgc | tacagagtag | ctgctatatg | 300 |
| cacacataca | caaaaatata | caatgaaaag | cctacaaaag | gtggtaagtc | caactaaggg | 360 |
| tcttaaatgg | aaaattaaag | gnggctccag | tanggnccct | tggaataccc | cttttccctn | 420 |
| ggcccatggt | gncccagccn | aaaggaacca | agngctcggg | gctgggtct  |            | 469 |

<210> 10206

<211> 285

<212> DNA

<213> Homo sapiens

<400> 10206

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| canggttaagg | cttttgaaag | atttatngaa | ataaattatc | tttgccataa | aatttacctg  | 60  |
| tcaccttttt  | caattacttt | tcaacattct | aaaaactttc | cgttatgtaa | aatncattta  | 120 |
| aactttgcca  | ataatngtag | ataatacnng | attcttccca | aanggactac | cacaaaaaca  | 180 |
| agctttcaaa  | gagtaaaaaa | aaaaaaaaaa | aaaangtaat | ccaanggggc | ataaaaactgn | 240 |
| ggtctgtanc  | ctatgacttc | anggttcaaa | tccttaangt | taanc      |             | 285 |

<210> 10207

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10207

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cctgggtgcag | ccagatgttc | taacttttgg | acaaatgagc | gtggtcagta | atgtacaata | 60  |
| actcttgagt  | ctgttacttt | ggcctagcta | agcccatctg | gccctcgggc | atcctgcaag | 120 |
| atgacagaca  | gaagagcaag | ggcactatca | gaaatggaac | aggctgcccc | ctactcctcc | 180 |
| cagcctctac  | cagtacacag | agacagactg | gagatagagc | attcgcagcc | agttggcatc | 240 |
| ttgggttctt  | tgtcttctga | aaataaaaaa | aagtgccttg | cttgtctttg | gggggtcaaa | 300 |
| agaaccgcac  | taattttatt | cctcgagggg | gcttttctgg | aggagaggat | cctcaagtcc | 360 |
| tgtgccaagg  | tttcacgctg | tttggccaca | cgccaggcct | ttcttctgga | totggtctac | 420 |
| acgtccagag  | atgatggagg | aattgcatca | gcacatcatg | cncagtgaag | nggtggcttt | 480 |
| ttgtccaaaa  | aaggccattt | ccgggcctgg | tacatggcct | aagggcctgg | cggaagtgtt | 540 |
| aaaagctggc  | ttcaaanagn |            |            |            |            | 560 |

<210> 10208

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10208

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaaggacagg | gttacggagt | ttatttcttg | gtgcctccaa | gagctcatgg | aaaagcagca | 60  |
| cagtgcagca | caagcaacag | tggtcagtaa | atgtatatga | ctcaacacat | tgccacagtc | 120 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagatggagt | ctcgtctgt  | cacccagggt | ggagtgcagt | ggcgtgatct | cagctcactg | 60  |
| caagctctgc | ctcccgggtc | cacgccattc | tcctgcctca | gcctcccag  | cagccgggac | 120 |
| cacaggcgcc | cgccaccatg | cccaactaat | tttttgcatt | tttagtaaag | acagggtttc | 180 |
| accatgttag | ccaggatggg | ctcgatctcc | tgacctcatg | atccacctac | ctcagcctcc | 240 |
| caaagtgcgt | ggattacagg | cgtgagccac | catgcccagc | ataaaattgc | taatttttga | 300 |
| cataaggcaa | tttctttctt | tttttgtttg | agatggagtc | tcgctcagtc | acccaggctg | 360 |
| gagtacagt  | gtgcgatctc | agctcactgc | aagctctgcc | tcccaggttc | acgccatgct | 420 |
| cctgcttcag | cctccaagta | gctgggacca | caggcgcccg | gcancggggc | cagctatttt | 480 |
| ttttggaatt | taggnaaaac | ggggcctaac | atcttncccg | gaagggnnn  | anttctgacc | 540 |

<210> 10212

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10212

|            |             |            |             |             |            |     |
|------------|-------------|------------|-------------|-------------|------------|-----|
| atTTTTTTTT | agacacagtc  | tcgctctgtg | gcccaggctg  | gagtgcagtc  | gtgcgatccc | 60  |
| agctcactgc | agcctctgcc  | tcccaggttc | aagcgattct  | cctgcctcag  | cctccccagt | 120 |
| agctgggatt | acaggggaccg | tgccaccatg | cctggctaata | ttttgtatatt | ttagtagaga | 180 |
| tggggtttta | ccatgttggc  | caggctggtc | aagaactcct  | gatctcagggt | tatctgtgtt | 240 |
| gcccgtcaca | gcagccacta  | gccacatgtg | gctactgggt  | cctgaaaaatg | tgggtggcaa | 300 |
| aacatacacc | caatttttgaa | tacttaatac | aaaaaagagt  | acaaaatatc  | taatgatgtt | 360 |
| aattatatgt | tgaataaact  | tttagaaatt | tgtgttaaaa  | tatatagtga  | agattaatct | 420 |
| cacctttttt | tttttctttg  | gtgagacagg | gtctactgtc  | gccaagctgg  | antgcaatgg | 480 |
| cgtgaacctt | gnttactgga  | accctnaact | tacangntta  | aagggaanct  | tccccntaa  | 539 |

<210> 10213

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10213

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| aagagacagg | atctcattct | gttgcccaga | gtggagtgca  | gtggcatgat  | cgtagcttac  | 60  |
| tacaacctca | aattcctggg | ctcaagtgat | ccttctgcct  | cagccttcca  | aagtgcagg   | 120 |
| attataggca | tgaggccact | gcgcccagcc | tcgttagtca  | tttatctacc  | aaatacatgg  | 180 |
| aaaactcaca | gaatcagagg | gtcttatcac | caaactctatg | tttgctttgc  | aaaaggctcag | 240 |
| gtcctgcatt | ttcaaaatgt | tccttctgct | ctgttatgct  | ttatatattca | tagcacagca  | 300 |
| acgccccctt | cacaacgact | ggtgatcatg | ttaccaatct  | ctgtccatgt  | atctgaatga  | 360 |
| gggttataaa | cttcaactga | gtccaaggta | cctggagcca  | aaaaatcatg  | gctggaagat  | 420 |
| cgacctccag | aaacatacag | aagaccattg | actgccacaa  | cacacatgcc  | tgctctangc  | 480 |
| actttcattg | angcaacttn | aaccacattt | tnctotttta  | aaggaaattt  | ttctnccggt  | 540 |
| tggaan     |            |            |             |             |             | 547 |

<210> 10214

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10214

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| caggaaaaaa | ttattttaata | gtataacaaa | atgcaaaaata | aagtacccaa | gttacaaaac  | 60  |
| ataaatttct | ttggttcatg  | atcacaccac | tattttttacc | ttccacatag | ctacagacat  | 120 |
| cacaccctca | aagtgaagtc  | aaactgtccc | cctcatactg  | aagatgtcat | gccaaaacca  | 180 |
| tcacataccc | cactgttcag  | tgaaactgtt | ggcaacttac  | atggaacaga | gctgtgggggt | 240 |
| aggaaaaagg | gaaaagggtt  | gcgttaaaaa | aaatggggag  | actctacaca | tgagaacaa   | 300 |
| gttagtggga | gggagtgtct  | tgctgggtca | acacgccatg  | aaccacaccc | ctattcgtgc  | 360 |
| tacatgaggc | tgagtccttg  | ctacaaccac | acagaaatac  | agacaatcaa | gtgaacctga  | 420 |
| gcacccccag | ggataacaga  | agaaaaatac | agagaagcag  | aggagagaaa | gaatggcagc  | 480 |
| aagangcaga | tcacagaatc  | cangggacac | ctagtncnaa  | cctggtttac | cnatngggna  | 540 |
| ag         |             |            |             |            |             | 542 |

<210> 10215

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10215

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ganaaggagt | tttgcgtgtg | ttgcctaggg | tggagtgcaa  | tggcacaatc | tcagctcact | 60  |
| gcaacctccg | cctcccgggt | tcaagccatt | ctcctgcctc  | agcctcccga | gtagctggga | 120 |
| ttacaggcat | gcaccaccag | gccagctaa  | tttttgtatt  | tttagtagag | acgggggttc | 180 |
| tccatgttgg | tcaggctggt | ctccaactcc | tgacctcagg  | tgatctgcct | gcctcagcct | 240 |
| cccaaagtgc | tgggattaca | ggcatgagcc | accacagcca  | ggctattttt | ggaattttct | 300 |
| aaagcacaaa | acacataatg | aaaatacagc | ttcaaatttc  | cttccacata | tattcttgag | 360 |
| actaattaca | aagttaaagt | gaagggtgtt | tttttgtttc  | cagagcatct | tttttagaga | 420 |
| gaagtaggta | tagatggagt | tgctatacat | aaagcactga  | aaagnggctc | tttcaggatn | 480 |
| ggaaacaaca | ntttccttta | aaataaccnt | ntggggggcca | aaanaaagn  |            | 529 |

<210> 10216

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10216

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| caattattaa | atgtttggca | ctttattaat | taaataagct  | ccaaaattaa | ttacatacaa  | 60  |
| atcaaaggaa | taagaaacaa | taaatagttt | attcagcaaa  | cacctctctg | cagcagccgg  | 120 |
| cagctctgag | gccgaggctg | gcgtcctgtg | gcagagggcc  | tgtggattgc | catgctcgct  | 180 |
| cccaggggtg | gctcaacagg | gacacaggtc | tactccttcc  | acatcgggtt | tccggaacaa  | 240 |
| caactgaact | ctcattcatt | accatcccat | tcattaccat  | ttttttttac | atacacgaaa  | 300 |
| cacaccgcaa | tgtatagact | aataagccaa | gagctttatt  | gatgcagcag | gcaactttaca | 360 |
| atgagcccaa | gagtgtccac | cttctctggg | aagacaggat  | gtctgtacaa | actcttgggt  | 420 |
| ttttttccac | ttcaaaaaca | caagctttcc | cgttttaccac | agcccttgga | tctgnacctg  | 480 |
| gccaaaccat | tccttcccca | aggcacacag | ggacctttgg  | accaanacca | gnccngcaac  | 540 |
| ttgnaaaacc | gna        |            |             |            |             | 554 |

<210> 10217

<211> 537

<212> DNA

009220" 59462960

<213> Homo sapiens

<400> 10217

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gagacggagt | ctcactgngt | agcccaagct | ggagtacagt | ggtgtggctc  | actgcaacct | 60  |
| ctgtctctgg | ggctcaagcg | attctcatgc | ctcagcctcc | caagtagctg  | ggactacagg | 120 |
| cttgngctac | catgtccagc | taatataat  | atattttttt | atttttagtag | anacgggggt | 180 |
| tcaccatgtt | gccagggng  | gtctcgaact | cctgagctca | ggagatcagc  | ccgactcggc | 240 |
| ctcccanagt | gctgggatta | ccagcatgag | caaccatgcc | cggcctaatt  | taagtttttt | 300 |
| ttaatngat  | gttgaagatg | cttcagaaat | gactagtcac | totcacatga  | ctataccact | 360 |
| gctgcatgag | gcataaggta | ccttccttgn | cctgnacacc | acaacgcacc  | acaactgaca | 420 |
| cgtcgtgggg | cccttcacag | acacctgttg | atggaatgaa | tgaagggcaa  | ccattacatc | 480 |
| cnnggacaga | accttggaan | ctgggcattg | tnccaaggcc | cggccggaaa  | aatggct    | 537 |

<210> 10218

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10218

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gaaacggagt | ctcattctgt | caccagggct  | ggagtgcagt | ggtgtgatct | cggctcactg  | 60  |
| caacctccac | ctcccaggct | caagcgattc  | tcctgcctca | gcctcccag  | tggctggggac | 120 |
| tacagacatg | taccaccaca | cctagctaatt | gtttgtattt | tttagtagat | atggtgtttt  | 180 |
| actatgtttg | ccaggctggt | ctttaactcc  | cgacggaccc | caagtgatct | gatcacctcg  | 240 |
| gcctcctaaa | gtgctgggat | tacagggtgtg | agtcaccgcg | cccagcctat | gtatttttta  | 300 |
| tttttatttt | tttggtgcag | agatggtgag  | gatgtcttgc | tttgttacct | aggttggtct  | 360 |
| tgaatttgtg | gctttaagt  | atcctccac   | cttggcctcc | aaagtgtctg | ggttacaggc  | 420 |
| gtaagccaac | gtgcctggcc | tgnatttatt  | ggaattcctt | tttncattct | catcttaatg  | 480 |
| cattttccaa | atngagaagg | acatccttct  | ggcttacact | ttnaaaaatt | nccgttttca  | 540 |
| tggn       |            |             |            |            |             | 544 |

<210> 10219

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10219

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| gtggattata | aacatatatt | tattattata  | atttccattc | tgaaaagcag  | atcaaaatga | 60  |
| cactggacca | tccagtcagt | tatggagtaa  | tgggcttcct | ccaaagagaa  | ctgacttggc | 120 |
| agaaatttag | gttggttaga | atgtgattaa  | catggagtaa | acgagatcag  | gttgtcagta | 180 |
| taattttcat | aaggcttcta | cccactccag  | ttgtaaggaa | tagtactgag  | ggaactccaa | 240 |
| cagaatgtct | tagaaggatg | cttctcagag  | acaaagggtc | tctaagttaa  | actottgacc | 300 |
| cctottctcc | ttacctaaag | cttgggggaag | aaaataaata | tttaattttt  | aactattcag | 360 |
| agctttgggc | acattataat | aattaaatat  | tctggagggt | aaattttotga | ccotttggtt | 420 |
| ataaattttc | taacntacnt | tttaaaaagg  | nntcaatggc | ncctttttca  | gtaggncccc | 480 |
| cttgaaattt | aaacctnggt | ctttcatatt  | tt         |             |            | 512 |

<210> 10220

<211> 520

09629469.072800



<400> 10223

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| aaagaatgtg | ctgcttatat | gcaatgggct | tattattcct | gttgtaatt   | ggaattggta | 60  |
| tacagacatt | ttccaatcct | tcaggtttca | actggcaa   | gccagcagac  | ataccacag  | 120 |
| agccagagct | cctcaggctc | ctccacgtcc | aacggcgtct | cacagtccctg | aggatgagga | 180 |
| cctgggtgag | gggagcacgg | gagacacagc | catcaaggca | tccacctcca  | ggacagacac | 240 |
| cagccaagaa | ccccctcagg | gcaaggcctc | tcacaagtcc | aactccacgg  | attccaccgt | 300 |
| aagtgtgtc  | aactggatgc | gcattttaca | aatctgagtt | ttctcaaaga  | agctgaagct | 360 |
| ttccgtgtcc | tcagtgtatc | tggactccca | gcgccgtacc | actccctgcc  | agccacacag | 420 |
| ggggacccac | aggaagcagg | ccttnccogt | ggcgggccnt | gctgctatcc  | ggcttccttc | 480 |
| tgngcaancg | tcctgaccgg | gaaaggntga | gccaccant  | ggatcctggc  | tnga       | 534 |

<210> 10224

<211> 488

<212> DNA

<213> Homo sapiens

<400> 10224

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cggagggcag | aacaaattca | gactttattg | tcagggagag | gaaaaagggg | agggccgtgg | 60  |
| gtggggggcc | tgggttgcta | cattgtcaag | cagaaagagt | tgatgggaag | gggaagacca | 120 |
| gtgtaggcca | gacccctccc | gggtcggcgg | ctgaagggtt | gacgatacgg | aaaccacgga | 180 |
| gtcgggggtg | ggggagaggt | gtcacacccc | cgcccagatt | gtgcagtgga | ggtgactggt | 240 |
| gggaggggac | agccatgagg | tctaggaact | tgaatcgggg | aggctacaga | ctcggcgaat | 300 |
| cctgcgaagg | ggaagggcgg | nggcgaggct | tctattgctt | tttgcacaca | gttttgcgga | 360 |
| aggcgaggcg | gnngtgggct | tggactggac | accccttgcc | cccctcggtg | ccccttgggc | 420 |
| natggtgctg | gtgaaaagaa | tggaaccggg | acttgganga | anaaagccaa | nggaaagnct | 480 |
| attngngn   |            |            |            |            |            | 488 |

<210> 10225

<211> 471

<212> DNA

<213> Homo sapiens

<400> 10225

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| aaatcttatt | tcagaaaact | tcctcttggg | gtaggaaagt | acacatgaag  | cagcaaagta | 60  |
| acgaagaaaa | acttaaatag | ggccttcaga | gatccacac  | actacaaaga  | ttctgccaag | 120 |
| ccataagata | agtgtgaagc | ccagtatatg | tccagctttt | ctcctcagga  | catcttcagt | 180 |
| gtttcttctc | ttttaaacac | cacatcaggt | tctagccaca | gacttgtgtt  | ttgggtgtgc | 240 |
| ctgctttgag | gggtccatgc | ccagtgtgtc | tgtgtgtgac | ccaggactca  | gcagtaatga | 300 |
| ctaacggccg | cccttcagga | tcacagatgt | gcttgggtgt | ggtggcaaaag | catggcactt | 360 |
| gtgtgcagtg | atgagaagca | gcacacggca | aggctgagcc | ctttatcagc  | aggcctccgt | 420 |
| anagcgtgtc | tgcgttgnc  | gctgccaang | gnctnantgg | ntggccgacc  | c          | 471 |

<210> 10226

<211> 530

<212> DNA

<213> Homo sapiens

<400> 10226

00629469.072800





|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| aagggcagaa | gcactttaat | cctagaggga  | gggtgaggca | ctgttgaaaa  | gagaagcaaa | 60  |
| ctttggcagg | ggtggccatt | ctgccttgct  | gagtcattgg | ctgagatacg  | gaagtcactt | 120 |
| tcaatcattt | tctacttctc | ccagggcact  | cagacaaaat | cagtgcagg   | tatatggaag | 180 |
| tacagatgta | ctgnatcaga | ctagtggagg  | tgaaaagggt | tctgcagtat  | aattaaccag | 240 |
| ttaatatgca | gcatgaaagg | gaaaagtgga  | cattactttg | gcacctgcaa  | acgtaaaaag | 300 |
| tgggagtaaa | gagagaagga | aatatattact | agtgagtact | ttacgggtgag | gcaaaaagta | 360 |
| gtatccgttc | cctttcacca | agacactgnc  | cactgnccac | tggccacagg  | ngactcaaat | 420 |
| caaaccaga  | accaccaccc | cttcattctt  | ctcttcacat | tattcagaac  | aantattatg | 480 |
| ctantancca | tgactaagtc | cctggggaaa  | ctnttcaaaa | gaattggcct  | tnggt      | 535 |

<210> 10230

<211> 257

<212> DNA

<213> Homo sapiens

<400> 10230

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aagacagagt | ctcgtccgt  | taccaggct  | ggagtgcagt | ggtgccatct | cggtcactg  | 60  |
| caacctccgc | ctcccagggt | caagtgattc | tcagcctcct | gagtagctgg | gcctacaggc | 120 |
| gtgtgccacc | atgtccggct | aatttttgta | cttgtagtag | agatgcggtt | tcaccacata | 180 |
| ggccaggctg | gtcttganc  | nctgacctca | ngtgatctgc | ctgccttngc | ctcccaangt | 240 |
| gctgggatta | caggcnn    |            |            |            |            | 257 |

<210> 10231

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10231

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| aatccaaaca | ccaacttgaa | caagagactt | tcagttttta | aacattttta | gngggaaacc  | 60  |
| ctgcctgtca | atgcatcatt | attgcccttc | ttgattgctg | nottggtaga | tgattcactg  | 120 |
| ccctcccta  | naagaggact | atgtgtcatc | tgcttgcccc | atgacctcag | ccttggccac  | 180 |
| atgacttgng | gtaccagtct | ntacagaaga | aggatgcctc | cttatatgca | aactcagggtg | 240 |
| tggccatgtg | atctgcactg | gccaatgaaa | tgtgggcaca | agtgacacct | gntattttcca | 300 |
| agcataagct | tanagcctat | gaatggtttg | ccaggtttgc | ctttcctcct | tcacccttcc  | 360 |
| tgggtatagg | acagaagaca | ggaaggagca | gaactatngc | agaccccagt | tgacacacag  | 420 |
| nacaagcaag | caataagcct | tgctgntgca | ccctgggggt | ttgctttaca | gnntaaccta  | 480 |
| gtttaaaaga | ctgggaccgt | ctttacatgg | gatncccaa  | ct         |             | 522 |

<210> 10232

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10232

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| caattgcaca | gatatttatt | gggtggcacc | atgcaagtta | aacaactott | tgcaaggcac | 60  |
| tgtgaagtta | aatacaacag | gcaaataatg | tcctttcaaa | gggaatgttg | ttccttagta | 120 |
| cagaacaatg | gccaccagg  | tttaggcatt | ctctcctccc | acctggaggc | ttccactgac | 180 |
| atctgaattc | ttctttccac | aggttgccct | ggattcagtg | acctttcttt | ggagattttg | 240 |

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|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aggaattttc | tgctgacctg | actttcttctt | cttcttcttg | ttcttcttct | tttacttctc | 300 |
| tttcatcttg | attttctttc | tcttcttttag | actcctttct | tgatgtcatg | actaattcct | 360 |
| ctagatcttt | atTTTTtata | agggtatgat  | gaagtttctc | atatgcatct | tcaaacttct | 420 |
| cctctgcctg | ctggctctat | tttcaacctc  | ctgatatgga | agagaagacc | cncnaaattg | 480 |
| aaaggggtgn | aaaaagattt | ttggatttgg  | aactcaattt | ntaaaanggc | nngggaat   | 538 |

<210> 10233  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 10233 |            |             |             |             |            |     |
| gagagggagt  | ttcactcttg | ttgccagggc  | tggagtgcaa  | tggcgcgacg  | tcggctcacc | 60  |
| gcaacctccg  | cctcctgggt | tcaagcaatt  | ctcctgcctc  | agcttcccgga | gtagctggga | 120 |
| ttacaggcat  | gcgccaccac | atccagctaa  | ttttgtattt  | ttagtagaga  | cagggtttct | 180 |
| ccatgttggg  | caggctagtc | tcgaactgct  | gaccttaggt  | gatccgcctg  | cctcagcctc | 240 |
| ccagagtgtc  | gggattacag | gcgtgagcca  | ccgtgcctgg  | caggaccggt  | ggtttttaat | 300 |
| cttcgagtct  | caatgcctgt | ggagaatttg  | acgaaagcta  | tgggtatcta  | cccaaattaa | 360 |
| catccacgta  | cacaaaaatt | tgggtgtacaa | tgctggggagt | agcggggagg  | gggagtagca | 420 |
| cagattccca  | ggctttgggg | atgggggtga  | agatttatga  | acncagggtt  | gtttnaatcc | 480 |
| aaccagaatc  | ctaaggtttt | ttcccatggt  | tgaggggggt  | ttaatggggg  | aatgna     | 536 |

<210> 10234  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10234 |            |            |            |            |            |     |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnnnn  |            |            |            |            |            | 548 |

<210> 10235  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 10235 |            |            |             |            |             |     |
| gccctctgag  | aaataattgt | ttaattgtta | ttatatTTTT  | tttccaagac | agtcttcacg  | 60  |
| tgtcacccan  | actggagtg  | agtggcgcaa | tcttgccctca | ctacaacctc | tgccctcctgg | 120 |
| gctcaagcga  | ttttcatg   | tcancctccc | aagatgctag  | gattacaagt | gtgtgccacc  | 180 |

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|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| acgccctgct | cctntgagaa | ataaatgagt | aaaatgcacc | ccctgtgagt  | gagatgatgc | 240 |
| atctgacttg | caggaataaa | ccaagtgaca | tctggagatc | actcatggaa  | gctggcctgg | 300 |
| aacagggttg | tgatttagcg | agggaaagcc | cagtaacctg | tgggtgttcc  | tgtcttgctt | 360 |
| ctcccatagt | gacttctgga | aattcagggc | ctccttggtc | acatcaatct  | cccgttgat  | 420 |
| ggcattgatg | tgctgggtgg | ntcgcctggc | ccttttncct | cggtcattta  | agaagggatt | 480 |
| gggttcnttg | naaaattcgg | tggantcact | acctggtaat | tttaaaactcc |            | 530 |

<210> 10236

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10236

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cattgccccaa | gctggcctca | aattcctggg | ctcaagtgat | cctccagcct | ccaagtaca  | 60  |
| ggcacatgcc  | acaacacctg | gcccgaatta | tcattcttgc | cacataataa | aggggagcat | 120 |
| gtttccactg  | gtggaatgtc | gtactaaaac | atcagaggct | cataaaataa | ttacatagtt | 180 |
| aataaaagttt | taagaaaatt | attaactata | ggcaacattt | tttcatgacc | ttctaagaat | 240 |
| caaggtgggt  | canagcatct | gacccactgc | ttaatcaagc | tctcctatat | aattaaaggt | 300 |
| tactaggtgg  | ctttgactaa | aattatgaaa | agggacggaa | atgtcttgtg | gagacacagt | 360 |
| atgaatgata  | gagcaagact | gcttcacgaa | aatgtaaatg | atcaagttat | tttttcccaa | 420 |
| ggtttaggaa  | tccctgaagg | gtctgaactt | ntaaatgcta | acntgnccag | gccccattta | 480 |
| ccntccgggn  | ccaaggcnt  | tcctancata | t          |            |            | 511 |

<210> 10237

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10237

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| ctttaaaata  | ccctcaggcc | agtcccaagc  | atagcctggc  | cctgaagtgc | caattccagc | 60  |
| acccccgtgg  | gccaccctag | acaccttggc  | cagatctgga  | cactcagggc | tgagattcaa | 120 |
| ctaggaggca  | gaccacggaa | gcaagtttgg  | aggggacagt  | ccctgacaga | ggctagagca | 180 |
| tcattccaagt | ggaggagatg | agacagaggg  | aaggggagagg | gaggcctaag | gatttcccca | 240 |
| gagggggagg  | tgcatgactg | ggcagggaaa  | gcagcctgct  | cgcttggcgg | ctgccaccat | 300 |
| ctctctcatc  | ggtggggcct | cagaccttgc  | cccattgctt  | agggagacaa | tgactggcca | 360 |
| cagacacacc  | cccacacaca | tttccagggt  | agacagaagg  | taaaaaacia | aggtggttgc | 420 |
| tcccagcaact | gcctgggctg | ggagctccaa  | ctatcagagt  | ccagtgaaca | agccattatn | 480 |
| ggcaagnttg  | gnccgtaaag | gtggctgggtg | gtgnngaata  | cttgggtggg | taaccaatga | 540 |
| aaanccgn    |            |             |             |            |            | 548 |

<210> 10238

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10238

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gcaaccaatt | cagattttta | ctggacattc | atgacagaat | gagatgtgca | tccagctgca | 60  |
| tcgcccagcc | catccgctgc | ccagggcagc | tgacgagcag | aaacacactc | tgacgtggcc | 120 |



|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ctttgtagca | tgtttaaagg | aacctagggtg | atttagtcaa | aagagaacac | tgcatgaacc | 180 |
| aaggcctcag | gtgcttcttg | ctgccttcat  | ttccacagag | gagaacacag | ggatttagag | 240 |
| gagatggaaa | cattttctag | gcagttattg  | aataacggat | ctttggagga | gttcgtggag | 300 |
| tagtgtaacc | agaaagtctt | taaaattaaa  | cccttcta   | cgtttgtaag | tgtanatggg | 360 |
| gggacttgga | aatctccggg | gcctaatacat | gctcgcaaaa | ggagtacat  | taatagcttt | 420 |
| ggagaagggg | gcttncnttt | cntttccagg  | ttaagtcaac | cgtaacnnn  |            | 469 |

<210> 10242

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10242

|            |             |             |            |             |             |     |
|------------|-------------|-------------|------------|-------------|-------------|-----|
| cggagcgtag | gtgtgtttat  | tcctgtacaa  | atcattacaa | aaccaagtct  | ggggcagtca  | 60  |
| ccgccccac  | ccatcacccc  | agtgtgcaat  | ggctagctgc | tggcctcctc  | catctggtcc  | 120 |
| ctccagcctc | acagcctcct  | cctgaagccc  | tttccttcca | ggctccagaa  | gagcaggaga  | 180 |
| caaacacacc | ccactgaggc  | ccagctttta  | taaagtgcct | gatacagagc  | caggggacag  | 240 |
| aaccacagtg | atacagctcc  | cgacagccat  | cccaggacga | cagagggtcg  | aggagagacc  | 300 |
| tcggaagccc | ccagtgaactc | cagacaaaagg | ggcaagcccc | aaaggcgccct | ncaacagttg  | 360 |
| gaaaacctcc | ctgctagagg  | gcanaaaaagg | aggcctggcc | ctttaagagc  | ccagctaattg | 420 |
| gcaactggct | naagggtcta  | aaaaaacnagc | tttanggttt | ggncccgttt  | cnttaaaagn  | 480 |
| ccccaacctt | gaaggagttt  | ggccaaaaaaa | nccctaaag  |             |             | 519 |

<210> 10243

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10243

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| atcttttaac | gttataat   | tatttcaaag | aaaacaga   | cagaacaaaa | acaacctttg | 60  |
| catitgaggg | aggagattat | tttacagttt | tggaaaagaa | taagaacaat | tgtatcagga | 120 |
| aacaaatgat | tatgacagaa | actcgcatcc | gacagctgca | gtgaatccac | gaggacacag | 180 |
| accatgctgg | tggccacagc | agggccacag | gtgaatccac | aaggaaacac | agaccatgct | 240 |
| ggcagccacg | gcagggccac | agggcacggt | ctccatgtgt | taatgtttta | tgtcagcatt | 300 |
| ttcatatgga | cagaaatcac | gaagaaatcc | tgcaaaaatg | gcatcaatat | gaacaaaccc | 360 |
| ttgttataaa | aagcaaaata | ttgataggaa | caatatcttn | cagcgtgtgc | gtttcacatt | 420 |
| tangctttac | tggatgaaac | taagtcaaaa | ttagaagcac | tgggctatct | tccaccgaca | 480 |
| tatattttac | tggatataac | cttcaagggt | tttcttaacc | ataggcttaa | aaggattctt | 540 |
| ttttcccaat | gngaccngac | ccc        |            |            |            | 563 |

<210> 10244

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10244

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagcaaatgt | tgatttatta | cctcaggttg | taggcattta | caagacaaaa | cggagacatc | 60  |
| cagtgtgatt | ccaagcaggc | tcatggacta | gtgcttacca | taaccacagg | gcaccagcaa | 120 |

|            |            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|------------|-----|
| tctgggat   | at         | ggtctccac  | agaagcactg | catacagaga | aggtgcattt | atttattcag | 180 |
| tagacagcaa | gatttccag  | ggagaggaaa | accgccctgc | cccacctcta | ccctggcttc |            | 240 |
| ccagacttct | aaggtcttta | ttcagcagtg | actttcattt | gatgagggtg | ctctcctctc |            | 300 |
| tcacgtcacc | ctgtcggcca | ccttgaccaa | taggtcaagg | gagacttctg | ccagctcgct |            | 360 |
| tctgctctgc | tgatggcctc | atcctgccac | tgtggctttt | caggctcttc | ctcctcttgc |            | 420 |
| cctggcggac | gtggggcccc | actctggctt | tcttctttgn | accangccct | tgcaatggat |            | 480 |
| tcttgctgct | tgtaggaaaa | accngcttct | tggangagcc | tttnttaaaa | caaacctggg |            | 540 |
| tgggccaaaa | ctaanggtgc | nct        |            |            |            |            | 563 |

<210> 10245

<211> 513

<212> DNA

<213> Homo sapiens

<400> 10245

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| aaaggataac | atagatttat  | gtttatttgc | attttatgtt | tccttatggt | tcatatgagt | 60  |
| ttattggaaa | attagcaaca  | tacacatcat | tttggggaat | ggaaagtgag | gcagagtaag | 120 |
| ccagaacatt | cactgttaaca | ttataagcaa | gtagaataaa | ttgataatac | cttcaccagt | 180 |
| aatgcacttt | ccctagtggg  | aataaattat | ttgtataaat | agcctcttga | tgtttgtgtg | 240 |
| ttatttagtt | atacaaatca  | catttttctt | ttttacatat | ggcactttaa | tgtagtact  | 300 |
| gaaaatgttt | tttctgacat  | tttttcagta | attgtcattt | acatcaaata | tgcagctaga | 360 |
| gctaatagaa | aaacagttaa  | aacaatttgt | tgnaatgggt | agatatttat | aaggaaacat | 420 |
| ttatnaaaga | tcttctgtaa  | gacagcttaa | acttgaaaat | cntatcaggc | cttaaaagca | 480 |
| ntcaagnggt | tttaccancc  | aaaggttnng | agc        |            |            | 513 |

<210> 10246

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10246

|            |            |             |            |             |            |     |
|------------|------------|-------------|------------|-------------|------------|-----|
| gttggtgctg | ctgtttttac | tccgacaatg  | cttattttac | agcgggaattg | acaaataaag | 60  |
| ccttatttta | cacatccgaa | gaaacacccat | cacaggaggt | ttgtaggtcg  | gctgtgtgct | 120 |
| ttccaaaaca | gcaaaataga | ttcttcccat  | ccaacccct  | ttcctcttgt  | agagtagggt | 180 |
| gtggctcgtg | gggcttcgtc | tctctgcagg  | cacagaaact | ggcagacctg  | gtccctcctg | 240 |
| agcgggccct | gctcaaggga | atgggtgccag | attttgaaca | caggtaaaca  | ggctccttca | 300 |
| taacaacact | gtgcatttct | gtgtcatttt  | gtttattgct | cactgagttg  | ttgccacctc | 360 |
| agctcttggg | ggaaaacagt | gggtgtccag  | aaattgctga | cacaagaaga  | tggattgcct | 420 |
| atggtccgtt | agggacacag | ggcagcccca  | gccagatccc | actggtccat  | gcagggcctc | 480 |
| gcagtagaaa | ctnaacgtnc | cacttngtaa  | caggctncaa | gacaccaatt  | cgggcancat | 540 |
| gggaaagaan | taaaccttn  |             |            |             |            | 559 |

<210> 10247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10247

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gagatggagt | cttgctctgt | cacccaggct | ggagtgcagt  | ggcatgatct | tggctcactg | 60  |
| caacctccgc | ctcctgggtt | caagtgattc | tcctggctca  | gcctcctgag | gagctggcat | 120 |
| tccaggcatg | tgccaccaca | cccagctagt | ttttgtat    | ttagtagaga | tggagtttca | 180 |
| ccatgttggg | caggctggtc | ttgaactcct | aacctcaggt  | gatctgcctg | cctcggcctc | 240 |
| ccaaagtgc  | gggattacag | gtgtgagcca | cagcgctcaa  | tctttccttc | tttcaagctg | 300 |
| caaataaatt | tatggaaaat | gtgaacactc | atctttotaat | gcttccagaa | aatgaaatt  | 360 |
| gagtaaaatg | gaagtgatgg | cataattctt | ctttcagggc  | tatggagctc | ttgaagaatt | 420 |
| ttactggtaa | taaagatcac | cagcagcatg | gacacccaga  | agagaattgc | aaagaagtaa | 480 |
| gtgggaaaga | agatgtcaac | ataggcncgt | atgactacng  | gggaaaatgn | cgtctttaaa | 540 |
| caatggcaat | tggagcmtta | antggccct  |             |            |            | 569 |

<210> 10248

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10248

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| gctgaaagt   | catttagcaa | agaactaaga | tataaaactg  | ttaaatactc  | atatgatata  | 60  |
| cacatacatc  | agaaagaatt | tggcaataag | ttaacaccag  | caatgtctgg  | agggttgggtt | 120 |
| attcgatttt  | ttttgtttcc | cttttcttta | ctctatccag  | aagcaggggc  | tataattgtc  | 180 |
| acggggaccct | tgggatgtcg | atttgccagc | cagaaacctc  | tgtggcaggc  | agcgcttct   | 240 |
| gcctgagtat  | tgctcgcgcc | cacagggctc | gttccaccca  | cttggcctgg  | caggctgcgc  | 300 |
| ttggctcaca  | ctactggcct | cgatctcaca | cctgccaaagg | gggagccagg  | cacggagtgg  | 360 |
| caaagagtgt  | atgagcgaat | gagcatgggg | tccagccact  | gtgcacagcc  | acgcatgcta  | 420 |
| gctgctgtgg  | caaggcagac | agcttcaggc | accagcacia  | gtgccagctt  | catgcaaggc  | 480 |
| tttggcttgg  | ancaaatgnt | ccacacatgg | ntttaactnt  | nngcancctgg | at          | 532 |

<210> 10249

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10249

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagacggagt | cttgctctgt | cacccaggct | ggagtgcagt | ggcacgatgt | cagctcactg | 60  |
| caagctccac | ctcccagggt | catgccattc | tcctgcctca | gcctcccag  | tagctgggct | 120 |
| acaggcccag | caccacaccc | agctaatttt | tttgtatttt | tagtagagac | ggggtttcat | 180 |
| cgtgttagcc | aggatggcct | tgatctcctg | acctcatgat | ccacccgcct | cggcctccca | 240 |
| aagtgctgag | attacaggcg | tgagccaccg | cgctcggcca | tgatttactc | ttttttttgt | 300 |
| aatttttcaa | actaccatat | aataaacatg | tctttcttta | cttttttttg | agacaagggt | 360 |
| ttgctctgat | gactgggctg | gagtgcagtg | gggcgtgagc | acagctcact | gcagtcttga | 420 |
| cctcctgggc | cttgatcgcc | tgggtcttga | ccttctgggc | cgaccttgag | ccctctgggc | 480 |
| ttaacaatcc | cctgcttaac | ctttgagtag | tggaccataa | cggngtacca | tgtttgtaa  | 539 |

<210> 10250

<211> 555

<212> DNA

<213> Homo sapiens

00629469.02800

<400> 10250

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| aagctctcaa  | ccagttttat | ttttcctcac | aatgaacgga  | agaaaaaggc | agaaataaat | 60  |
| ggtaggggtca | tttgctagta | gaaaagaaag | ctgggattcc  | ccatttactt | tggagactga | 120 |
| ggagaaagaa  | ctgctttccc | cactcgtgtc | tgggcaaagg  | gtgtgcccag | atgttggcaa | 180 |
| aggaaccaga  | caaatcaac  | agccagcagt | tttctgttcc  | aaacagttag | ctcctctaca | 240 |
| gtccagaggg  | aagctattcc | tgagttcatt | caagggtgaca | gcggaagtgt | ttctctcctt | 300 |
| ctgcttggcc  | caactgtgcc | tgagggtgta | tggatccaga  | ccttgtaaac | attcagctag | 360 |
| gtgtaacata  | accagaaagg | ctgaaggaag | gctcttggcc  | ttcccagctt | gagaagtagg | 420 |
| ggcctcatgt  | gtatctggtg | gnctgcanag | cccaaagcag  | anagctatga | tgaataaaat | 480 |
| attttaatgn  | tttctaaaat | aactccttta | tatccangga  | tncttcagta | nggcctatt  | 540 |
| atcctaaagc  | tcttg      |            |             |            |            | 555 |

<210> 10251

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10251

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| gagacagagt  | ctcactctgt | cacccaggct | ggagtgcagt  | ggtgcaatct | tggctcactg | 60  |
| caacctccac  | ctcctgggtt | caagcaattc | tcttcctcag  | cctcccaagc | agctgggatt | 120 |
| acaggcacgc  | accaccacgc | ccagctaatt | tgtgtatttt  | tagtagagat | ggggtttcat | 180 |
| catcttggcc  | aggctagtct | tgaactcctg | acctcaagtg  | atccacctgc | ctcagcctcc | 240 |
| ccagcgtgct  | gagattacag | gogtgagcca | ccacgcctgg  | ccaagttggc | tttcttttac | 300 |
| acaacatgat  | gcctagtggg | ttcacccatg | tttctgtgtg  | catccgcagt | tcattccttt | 360 |
| ttattgggta  | ggtagcattc | cattgtgtga | acacgccatg  | atttgnttac | tcattccact | 420 |
| cctgaggggac | atttgagttt | tttcccctta | agotTTTTTgn | aaattcaagc | accctttcat | 480 |
| aatttggctt  | catctttctt | caagggaatc | notTTTTTTT  | tctcaaaagg | atccngaaca | 540 |
| ataggnattn  | aanccttctt | ggaancgggc |             |            |            | 570 |

<210> 10252

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10252

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gtatttttag | tagagatggg | gtttcactgt  | gttaatcagg | atggtctcga | tctcctgacc | 60  |
| tctgtatctg | ccgcctcag  | cctcccaaag  | tgttgggatt | acaggcgtga | gccaccgcct | 120 |
| ctggcctctg | tgaaggcttt | cacaatgccc  | tgggtcacct | caccagagaa | catgcagctc | 180 |
| cgaatactgg | ggctcccacc | agcctggggag | accaggaga  | gcagggctcg | gggctgactc | 240 |
| atctgtgtcc | ccagcttctg | ccagcacagg  | gcctggccct | caggagacct | cacaggatgt | 300 |
| ggctgaaagg | acctgaatgc | acccccagct  | ggggccacat | tcctgtccca | acacgccagt | 360 |
| gcccaccctc | tgccttgggt | gcccaggaga  | cccagctgtc | tccttcctgc | cctgctgagc | 420 |
| tgaggccact | gggagacaga | tttacacaga  | aagtcacacc | gggggtgaag | ggcttttggg | 480 |
| ggctcaaacg | actgtgggaa | cttgggtattg | ggagcgcaan | ccaaccttgg | gggacaaggg | 540 |
| aagnttttng | gccaaaaacc | ontaat      |            |            |            | 566 |

<210> 10253

<211> 570



<212> DNA

<213> Homo sapiens

<400> 10253

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| gagatggagt | ctcactctgt  | cgcctaggct | ggagtgcaat  | ggcgtgatct | cagctcacca | 60  |
| caacctccac | ctcctgggtt  | caagcgagtc | tcctgcctca  | gcctcccag  | tagctgggat | 120 |
| tacaggccac | aaccacgcct  | ggctaatttt | tgtatttttt  | agtagagatg | ggcttttgcc | 180 |
| atgttgacca | ggctgggtctt | gaactcctga | cctcagggtga | cccgcctgcc | tcagcctccc | 240 |
| aaagtgctgg | gattacaggt  | gtaagccacc | gcactcagcc  | atgcctgctg | tttctcaaaa | 300 |
| ccaagacctg | ggggaagtgg  | agaaagatgg | atgttttgga  | aatgaatggg | ctcaagacca | 360 |
| acaagagtga | ttgcaggtct  | cagatagtg  | ctctcccacc  | ctagtcccga | cctcctgagg | 420 |
| aacccttcag | gacatggcct  | gcaaaagact | agggtgagca  | gggtatggca | ccaagcacc  | 480 |
| attggnccag | ttggtgccac  | gcattcccgt | gactgggaag  | agacaacgta | nactggactt | 540 |
| accctntaan | ggggttaaac  | cgggggggnc |             |            |            | 570 |

<210> 10254

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10254

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gagacagagt | ctcattctat | tgcccaggct | ggagtgcaat | ggcacaatct | tggctcactg  | 60  |
| caacctctgc | ctcctgggct | caagtgattc | tcctgcctca | gcctnccgag | cagnccgggac | 120 |
| tacaggaata | tgccaccaca | cccagcta   | ttttatattt | ttagtagaga | cagggtttca  | 180 |
| ccatgttgat | caggctggtc | ttgaactcct | gacctcaggt | gatccacctg | ccttggcctn  | 240 |
| ccaaagtgct | gggaatacag | acgtgagcca | ctgogcctgg | cccctcattc | ttgaaagacg  | 300 |
| gattttctgg | gtacacaatt | ctaggctatc | actattttct | cccaggactt | tgaagatatt  | 360 |
| atttactatc | tttctggctt | ccactgntgc | ttttaatcaa | ctacttattn | tcttctttcc  | 420 |
| ananaancnc | tttcttttnt | gccttaa    |            |            |             | 447 |

<210> 10255

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10255

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| cttctctttt  | ttgtcgccca | ggctgagtg  | aatggtgcaa  | tcacggotta | ctgcagactc  | 60  |
| gacctcctgg  | gctcagcctc | ctgaatagct | gaggctacag  | gtgtgcacca | ccacgcccag  | 120 |
| ctaattattt  | gtactttttt | gtagaggcag | ggtttacta   | tgttgcccag | gctgggtctca | 180 |
| aactcccggg  | ctcaagcaat | ctgtccacct | tggccttcca  | aagtgtctgg | attacaggct  | 240 |
| tgagccaccg  | ccccagcccc | ttcgtcttct | atatttagaa  | acagtgttct | tggaagcaga  | 300 |
| cagatgctct  | gaggcctgag | ctcgtgttta | tggcaagcaa  | cacagccaac | catgcacagg  | 360 |
| gaggctcatgt | ctggattaga | atggccgacc | cattctaattg | ctctaaacga | cgcattttca  | 420 |
| aaagctttga  | cactggatct | taagaaaata | agtaaactcc  | ttggtacaaa | agcnccttaag | 480 |
| aaaattaatt  | acattaaaca | cagttcagga | agcacctgtg  | gatctggcca | tgccaggcag  | 540 |
| gcaaaggggn  | tttcaggggg | gc         |             |            |             | 562 |

<210> 10256

<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 10256

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| agagacaagg | tctcgctctg  | ttgcccaggc | cagaggactg  | tggcaccatc | accactaaat | 60  |
| gcagcctcga | cctcctgggc  | tcacgttato | ctcccacctc  | agcctcctga | gtagctggac | 120 |
| tacaggtgca | caccaccaca  | cccagctaag | tttttatttt  | tttagagaca | gggtcttgct | 180 |
| atgttgccca | ggctgggtctc | aaactcctgg | totcaagcaa  | tcctcccgcc | ttggccttcc | 240 |
| aaagtgctgg | gattacaggc  | tgnttttaac | gtgtattatc  | ttattactag | tatatattac | 300 |
| ttgttgcccc | gtctgcccac  | aaaagacacc | actgaagtgt  | atatatgttg | caagttcctc | 360 |
| tccagtgaac | ctnctaccaa  | ctccacagag | tcagctacta  | gtaacagcat | gngtattcct | 420 |
| tctagaactt | tccacaagcn  | cacacaaccg | ngtaaataatg | aaggttccca | gaccaacctg | 480 |
| cccaccgggn | ttttnaaaaa  | aaaaaaagng | ggaatttncc  | aaaggcctgg | tttgaacggt | 540 |
| tcccc      |             |            |             |            |            | 545 |

<210> 10257  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 10257

|            |             |            |            |             |            |     |
|------------|-------------|------------|------------|-------------|------------|-----|
| agataaatct | gttcagataa  | gctccttatg | aatccttcag | atcgatgttc  | ttgaggaaaa | 60  |
| cagtcaagct | aaacagcaat  | gatgactttt | atggtaaagg | atgagctgat  | cactagctaa | 120 |
| gctacttagt | caccatcctg  | ggagatgagc | tcacaggcac | caaggctttg  | cttcctgttg | 180 |
| cctgctagtt | acagtgaacc  | agctccatgg | attgacaagg | gtacacagga  | tgacagcaga | 240 |
| gcaaaggagt | ttgccaaagta | tttgttctgt | cattaagtat | tcaaaagaac  | atatattttt | 300 |
| cttcattgga | cataactttc  | taagaatgaa | atttggggac | ttgaatgatt  | caaggtcaaa | 360 |
| tattaaacat | tagctccttc  | accaatacct | gncattgnca | ttagaaagga  | aggcctcttg | 420 |
| gttacgctac | tggngattca  | caagggctct | ttgtcggcca | agaaggcccc  | tttgnngcct | 480 |
| ggctttaact | ggcaatggaa  | gcctaaactt | ttgcccttag | gcattctangg | ctttccangg | 540 |
| ttggaagtgt | caacccaatg  | gtg        |            |             |            | 563 |

<210> 10258  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10258

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| gaaacatgag  | ctcacttggt | gctctcttggc | ctctttatttc | ccatctcctt | aggctgaccc | 60  |
| tgacaagtgc  | cagggccagg | cttggaccaaa | gcagtcaact  | gagtcagcct | gccctgggaa | 120 |
| ccaggcaggg  | gagggagctt | acggacgggc  | taggctcagg  | agagtaagag | agagcagatg | 180 |
| aagggcagaa  | gtccgtggcc | gcagaggcag  | ctgagcatga  | gggatggagc | gtgctgctgt | 240 |
| cctgcagggt  | ccgttagccc | tgtttttgcac | tgggtggattg | atctgctcag | gcgcacaggg | 300 |
| agatggcaca  | gcaggacccg | ccgcccagcc  | tcgctgaggg  | catgctcccg | cctcacctcc | 360 |
| agaggctgtt  | ggcggaagc  | cgaagagctg  | cagcagtttg  | ggccagcgtg | ggactggang | 420 |
| cccagggtgaa | tcttgtgggg | caagggacgg  | agcttaagct  | gtcccggccc | gggnccttcc | 480 |
| canccaaagg  | ncctaaaacc | ttagccttta  | atccttgggg  | ggtttgcttn | tccctgaanc | 540 |

ctgggggtttt ctga

554

<210> 10259

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10259

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| gggccaggcc  | gggggaaggt | gagggttga   | aggcagaagg  | aagtgacaaa  | ggccacctca  | 60  |
| gcacagcagt  | gagaggagct | gaggccaagg  | gaggcagtoa  | cacaccctag  | ctctgcaaga  | 120 |
| cctccaagat  | ggcccggagg | atggcagcag  | ctgccaccgc  | cccggggtct  | ggctgctcca  | 180 |
| gccgtgctga  | gctgatataa | ctggctcttc  | cggtctccagc | ttccatattc  | ttggtggcct  | 240 |
| cggtctgcagc | ttcggcactc | ttgactgctt  | tggtcaggac  | ttgtaacaga  | tcagctcctg  | 300 |
| ggctcttcca  | ggcttggagc | tcctgccccg  | ctgcccacag  | agaaccacagc | atagtccctgt | 360 |
| cccctggagc  | agccttgcca | tacttctgca  | tggtctccag  | gcccggcatc  | catggcagca  | 420 |
| gaccaggctg  | ggaagctggt | cttggccttc  | agggcttgtg  | caaccccagt  | caggaacang  | 480 |
| ccataaacgc  | cccaaataaa | ccttccatct  | tttcaagagc  | ngaccgacaa  | cttggaanaac | 540 |
| aacttgcaag  | gcttgcaang | gggtggggccc | tcctn       |             |             | 575 |

<210> 10260

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10260

|            |            |            |            |              |             |     |
|------------|------------|------------|------------|--------------|-------------|-----|
| acaattctca | tattttattt | tgttaatgca | tgataaaaaa | ttaacgtcat   | cattcagatc  | 60  |
| cattatttgg | aatgaagaat | ttagtatttc | ctgactgcct | aatttggcac   | tttgaggaat  | 120 |
| ttcctctgca | cgctgagccc | caaaatgcac | tattttctag | accaaaaatg   | aaaacgtgcg  | 180 |
| tatatacaag | tgagctgaaa | agttacaaca | caagatgato | atitttgggtga | aaaataatcc  | 240 |
| cccaaataaa | gcagcatgtc | atgtccttag | aatatgttac | actagaaaagc  | tagtaaaaaat | 300 |
| tcaggctaag | gaggcaattt | agagttcaag | ttttatcaca | tatcagcaaa   | gttttagcct  | 360 |
| tccttataaa | acagacacct | tcaaagtga  | atcttgccag | aagggttgat   | ttttaattat  | 420 |
| gngtatatac | aaacttctct | attttaacat | tcaacatatt | caggattaan   | tctagaaagg  | 480 |
| agctatagct | gattattaaa | ccaaatggtt | aggaccgaag | gaaattgggc   | ccccaattca  | 540 |
| tnganncctn |            |            |            |              |             | 550 |

<210> 10261

<211> 476

<212> DNA

<213> Homo sapiens

<400> 10261

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| attttaatat | tttttattaa  | gggctataaa | aaataccag  | aaagataaat | aatgngatg  | 60  |
| caatgatatc | tgccctaata  | tgaanaactt | tccttcactg | nattgntttc | cttcacaatg | 120 |
| gccttcaaat | cacaggaggc  | agtgattcca | tgccatttcc | tcctctttta | ttacacgcta | 180 |
| caggatttct | gaatcagtat  | ccccgccctc | agtcttctct | ttataaatca | aagtcatttt | 240 |
| caatccaccg | tttaaaaggga | gcgtattttt | ttcttttcca | cgaanaggac | tccttgnttc | 300 |
| actatggagg | gagaaaaaaa  | aattgnggca | gaaaattatt | aagtatcatc | gccattttta | 360 |

009220" 69462960

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| taaaaaatca | tatcagacca | taagccctac | ctttctotta | atttactatt | cctggatatg | 420 |
| aaaaatggag | ctgatttggc | aactcagttc | ctccatncca | ggagccaggg | cagatn     | 476 |

<210> 10262

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10262

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| ctgagacgga | gtctcgctct  | gttgcccagg | ctggagtgca | gtggcgggat | cttggctcac | 60  |
| tgcaagctcc | gcctcctggg  | ttcatgccat | tctcctgcct | cagcctcccg | agtagctggg | 120 |
| actacaggcg | cctaccacca  | cgcccggcta | atTTTTtgta | ctttagtact | agagacgggg | 180 |
| tttcaccgtg | ttagccagga  | tgctctcgat | ctcccgacct | tgtgatttgc | ccgccccggc | 240 |
| ctcccaaagt | gctgggatta  | caggtgtgag | ccacggcgcc | cggctggtgg | tttcatata  | 300 |
| tttacaatgt | tgtgcaacca  | ccacccatt  | atctaattcc | agaacatagc | ccgtcacccc | 360 |
| aaaaaggAAC | cttgcattcca | tcattcagtc | ctctctattt | cccctacccc | acttncctgg | 420 |
| caatcactaa | atcacttttt  | ggtcatatgc | cattgnntaa | taatggacat | ttcatataaa | 480 |
| tnatacacia | ngggg       |            |            |            |            | 495 |

<210> 10263

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10263

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gcaaaaaaa  | actttattgc | ncaaaaaagg | aaaacaaaaa  | aaacaaaaaa | acttcattta | 60  |
| tatacagtca | gatntaaaga | catntntttg | actcctgngc  | atataatttc | tcaactcaag | 120 |
| attagggcat | aaaagtcagg | ctgctatgcc | anacatgctn  | tgccttatgg | cagggccaag | 180 |
| gagaggattg | tcacttgaaa | gngggaacnc | ttaaattggat | gacagacaac | actggacca  | 240 |
| cagaccaaga | gcattcttnt | aagccctgga | gtagctcgag  | gaatggaaga | gggaaattgg | 300 |
| aagcagggtc | ctttttcgat | cttcatgtga | agagaccag   | ccntttcaag | ggtatccaag | 360 |
| ataaacttcg | ttcccccagg | cccaccaatc | cctgnccagt  | cttttgnntt | ctgccttcn  | 420 |
| aataggacat | tctcctttgg | ggccaagccc | ccnttgnaca  | aaatcctcca | ngg        | 473 |

<210> 10264

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10264

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| caggttttta | tttttttatt | tcttatattt | tttaagacgg | agtttcaact | ttgttgccca  | 60  |
| ggtgcagtgc | aatggcatga | tctcgactca | ctgcaacctc | cacctcccag | gttcaaggga  | 120 |
| ttctcctgtc | tcagcctccc | aagcagctgg | gatcacaggc | atgcaccagc | acaccagcc   | 180 |
| aattttgtat | ttttagtaga | gacagggttc | ctccatgctg | gtcaggctag | tctcgaactc  | 240 |
| ccgacctcag | gtgatacacc | cgctcggccc | tctcaaagtg | ctgggattac | aggtgtgagc  | 300 |
| cacatgcct  | ggcccctggg | gacacttttt | tcagaggcca | gatgtcaact | tccatctcca  | 360 |
| catgcctcaa | gtttacacat | cattgcattc | cagcacagag | ccccatcatg | taagggn tac | 420 |
| tttgggttat | tctggccctg | tgagaagaaa | ctattggcag | cnaaagccat | actggccttt  | 480 |

ggcaactttt cccaagt

497

<210> 10265

<211> 489

<212> DNA

<213> Homo sapiens

<400> 10265

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| gagacagagt | cttgctctgt  | caccacaggct | ggagtacagt  | ggcatgatct | caactcacca | 60  |
| caacctctgc | ctcctgggtc  | tcctaaatcg  | ctgaagcggt  | tctcctgctt | cagtctcccg | 120 |
| agtagctggg | gttacaggca  | caagccacca  | cgcttggtta  | gttttttgta | tttttagtag | 180 |
| agttgggggt | tcaccatggt  | ggccaggctg  | gtctcaaaact | cctgacctca | agtgatccgc | 240 |
| ccacctcggc | tcccaaagt   | gctgggatta  | caggcgagag  | ccaccacacc | tggcataaaa | 300 |
| tacattcttt | aaattcatat  | tatctgcttc  | tttttacttc  | ttttaatgtg | gctcctggaa | 360 |
| aatctaaaa  | ttgatttttag | atctatggct  | ccattatagc  | attcctattg | ggcagtgctg | 420 |
| gtcttccttt | ccatgagaac  | ccttttagctg | ggaaaagtgt  | ttctggacta | attttttttn | 480 |
| aaatttttna |             |             |             |            |            | 489 |

<210> 10266

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10266

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| aaagaagccc | aaacacattt | tcttgctgta  | tttatgttga  | attccccatc | tacaatgagc | 60  |
| agtcacgaag | atggctctct | tcagggcaac  | atggctcacag | gactggggga | atccagggga | 120 |
| ctgagaggga | gcgtgaggat | gggagggtggg | gctacctcct  | gctgtttcac | attagagaca | 180 |
| aactgtaaca | cagtccatgg | gcctgcaacc  | gtcccccttt  | attatctggc | ataacgcgtg | 240 |
| atgtagttgt | ccactttatt | ctggaagtcc  | tccttgctct  | gcaaatgatg | ttctgtagct | 300 |
| tcaatattca | gtggatcatc | aaaattcaaa  | aatcagtaaa  | caaagagttt | aatccccaaa | 360 |
| cgacatcctt | taatgntctc | atgggagccc  | aaccagtgcc  | cgcaattgna | tggtctctca | 420 |
| gtaactcaga | catatttccc | tggctttggg  | aatgttgggg  | tgccanactc | tggtcaggcn | 480 |
| tttacttttg | g          |             |             |            |            | 491 |

<210> 10267

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10267

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| gagacggagt | ttcactcttg | tcaccacaggc | tgaagtgcaa  | tgcatgatc   | tcagctcact | 60  |
| gcaacctctg | cctcctgggt | tccagcgatt  | ctcctgcctc  | agcctccaga  | gtagctggga | 120 |
| ttgcaggcac | ctgccaccac | gcctgggttaa | tttttgtatt  | tttagtagag  | acgggggttc | 180 |
| accacgttgg | ccaggctggt | cttgaactcc  | tgacctcagg  | tgatctgccc  | acccagcct  | 240 |
| cccaaagtgc | tgggattaca | ggcgtgagcc  | actgcaccca  | gccaaaacgt  | ttttataaag | 300 |
| aggttttaaa | aagatgggta | tgtgtatatt  | atgtgtatatt | tataattaaa  | aagttggggg | 360 |
| aaacatttta | aaatagtgac | catacccaat  | tgttggtaag  | gctggggggca | accggaattc | 420 |
| ataccactgn | taatagaaat | gaaaaaccgg  | ncaactactt  | nggaacagtt  | tggcaagttc | 480 |

ntttctttct ttnnn

495

<210> 10268

<211> 431

<212> DNA

<213> Homo sapiens

<400> 10268

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ggatacatca | aaggtcttta | ttagcatagg | aacaacacac  | ggtgtgcatc | tgtgtgttcc | 60  |
| ccaaatgcac | acaaaccctg | tctctctcaa | gaatcactga  | tgtatttcat | cgtagagttg | 120 |
| agaatttcta | ggccatgaag | ctttctcagt | tgagcagcaa  | atctgggctc | agctgtgcac | 180 |
| agcttcccca | gagcaatgcc | tgcgttcacc | tgacggcgcc  | tcttctgtgt | gtcactgcct | 240 |
| gcaagcttta | acaagacctg | caaaagggtc | gtcttttagca | gggaagacgc | aacgttgggc | 300 |
| acctccatgc | agttaccaag | gcagagggca | gcgttgccca  | ccagaacctc | atcctccgag | 360 |
| ctgagcagct | tcatcataac | gctcaacttt | ttatccagtc  | ttantacttn | ttnccgagct | 420 |
| tnangnanac | c          |            |             |            |            | 431 |

<210> 10269

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10269

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gagtctcgct  | ctgttgccca | ggctgaagtg | cagtggcgcg | atctgggctc | actgcaagat | 60  |
| ctgcctcccg  | ggtttacgcc | attcttctgc | ctcagcctcc | caagtagctg | ggactacagg | 120 |
| tgcccgcgcg  | tacgaccggc | taattttttg | ttattttttt | tagtagaggc | ggggtttcac | 180 |
| cgtgttagcc  | aggatagtct | ccatctcctg | acctcgtgat | ccgcccgcct | cggcctccca | 240 |
| aagtgctggg  | attacaggcg | tgagccactg | cgcttgccct | aatttttact | tctgtctggc | 300 |
| tgttcactac  | tttggcccaa | cagctggctt | aaccgcctac | tgcctgaca  | cactagaatg | 360 |
| acacagtgga  | atttttggat | ggtaggttta | tgtggcttca | aaaacaggaa | gtttctactc | 420 |
| taggtcctaa  | ctagaaggat | tnonttagaa | acataaaatg | caaattnagc | aatctataan | 480 |
| aagtinggtaa | aaaaagtcc  |            |            |            |            | 499 |

<210> 10270

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10270

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| ctttcccatt  | tggaacaagt | gcccatacaa | ggcttaggag  | atataaaaaga | tgtacaagaa | 60  |
| caactccaag  | atccctttta | agagtctttc | atctttctgt  | aaaaactaaa  | ccaagataca | 120 |
| taacatatga  | gtgtcacata | tcgcatgcta | attcagaagc  | aagctatatg  | aagcaatagg | 180 |
| aaacacagag  | ccgtcagagc | gggaaagccc | tggaggcacg  | agtcagcgat  | gacaccacag | 240 |
| ggtattcaag  | gagcaccaat | ggcctgcagg | tggcagaaac  | aatggaggaa  | ccagcctgag | 300 |
| tcaaggaggga | ctcactaggt | aagcttggga | aatagggtctg | aagacgtgga  | ctgagcagtc | 360 |
| gatggaaggc  | tcggaagtca | gacatggntc | acctgcgaca  | ggggcctnaa  | caagagaccg | 420 |
| gtntnaaggc  | actggtttta | ggcctntngt | ttaaaacccc  | ggttgccttn  | aac        | 473 |

<210> 10271  
<211> 445  
<212> DNA  
<213> Homo sapiens

<400> 10271  
cacagtccta cacataattt atggtattca gaacatcact ttataaactg ttgccaaatt 60  
accacttaaa cactaatatc caaatacaga atttagaaaa ttatttttaa ttttaactct 120  
accatccccc cgagctctcg gctatgaatt tagtctggga agagggctcc gtaataggcc 180  
actgagggtcc tctgtccac cacatcatcc tccccgaaa actagctgcc cgactgctct 240  
accagacttg ggctagaatt tggcttcacg gtggcaatgg gaccacctgg gccctacagt 300  
gtggcaaaat caacttgccc acaaaccoca tcccagggtgc tgggatgcta acacactgaa 360  
gctgaaagac cacacttggn tttgccacag atcaagctgn atntgactag acaggctggt 420  
ctntacccta tttctgnaa aangc 445

<210> 10272  
<211> 493  
<212> DNA  
<213> Homo sapiens

<400> 10272  
ggctttggct ntagagcatt tattgnaaac aaaattgagg taaaagaagc tgaccanana 60  
cccacgcccg tccaggctgg ggaagtctnt actngcccca caccaggccc cgagcacccg 120  
gggcccnaag cagccccan aggacanacg ggccctgcgc actgaggtag ctgcatntta 180  
agcccccatg agtacaactg cccagggctg cccaattccc anaggggagg aggagagaga 240  
ggcaggcagg gggagccccg gcttnaggng gggcacacc caccacctta acaaacctnc 300  
cagcctttng ggctgggcac ttctgcctg gncaccacg cagccatggg gcaacggggt 360  
ggccacaaa agcgggcctt cttgggtcca agncacttgt tgttcaagca atccttgggn 420  
acccttggg aagcaagtta anccagacgt tttgaaggta ntgggggtcn ggataaccgn 480  
ggccctaattg ttc 493

<210> 10273  
<211> 429  
<212> DNA  
<213> Homo sapiens

<400> 10273  
cttgggtacat gattttatag gaagcacatt tgtgttcaag tgaaggcaga ggogtccacc 60  
ccaagtcacc agagcgcagg tgcagagagg aaaagctgtc agctagtgcc agcctccaag 120  
ggccagcgct acccttcaac agctggaggc accactgtgc gaggctttcc acaccggcct 180  
ccctcaggaa caagacatcc tcaccaggca ggggtgaggt atgggctcca ggactggctt 240  
cagcaggcac caggctgggg caccagctgg ggocctgggt cggccagaag gtcacacaga 300  
cggttgcgct gctctctcac cactgcaagc totgcgtccc acgcagtgtc actgagcaca 360  
gtcaccacct ngtccaagac atncgggccc acgaagtnac ttgangngaa ccatgnnttg 420  
gacccttg 429

<210> 10274  
<211> 490





<213> Homo sapiens

<400> 10277

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agcatgcaat | tttttattgg | tttctaaatc | tatttgtaca | cttaatatgc | tagtattaat | 60  |
| ttcacaaaca | gtataaagaa | tgtactccaa | tgatattacg | cggcaactac | tcacctgaaa | 120 |
| aagaaaacat | tgtctctgaa | ataattccta | attatacaat | tttgcaaata | agcactataa | 180 |
| atattaaaat | gttaagactt | cagtgtataa | tgtcaataac | atcctgcctt | tttaaaaatt | 240 |
| gcttaaaaca | tttgttaaag | atcatgcaaa | ataaacactg | tattaaaatg | ctagattaca | 300 |
| ctcaaacatc | aaggcaatga | aacacaaaag | agcaactatt | tagcacaatg | actggcccag | 360 |
| taaataactt | aatcagcata | ttaataaaaa | cccactgagt | gataaacatc | gaaaatgtaa | 420 |
| cactgaatct | agataatagc | gcatntggcg | atctaccatc | taccgnccta | actggacttg | 480 |
| ggggnaacc  | nccggaatca | ttctacataa | atgagctntg | tnaaacgata | ccatattcat | 540 |
| tgn        |            |            |            |            |            | 543 |

<210> 10278

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10278

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agtgggggaa | gggtgagagc | tcagcactca | ctgctttatt | atcacagtag | gtgacaaagg | 60  |
| ccgcagggag | agggggaaag | gtccagagct | gtggagaaag | aaggggctcc | ctgtctccag | 120 |
| ggtttgttta | aggttttctc | catggcctag | ggcccagcca | cttccctcac | tggcctcaaa | 180 |
| gccctggagt | tgagccctct | aggcagtc   | gggcaggcag | gagatggggc | agagaggggg | 240 |
| aggatgtgtt | ctttaggtac | agaatccctg | accacggggg | ccagtgcctg | tgggccaacc | 300 |
| accaggaagc | tgtgcatgcc | cacagcccga | ggcccctggg | aatcgcagag | gtaattatcc | 360 |
| ccaacatggg | ctgccactac | tggttccata | tgaacaagcc | ccaaggcctt | ctggaaaatg | 420 |
| ccggggtncc | gcttggggca | accacaacct | nngangtcaa | cnccaaatca | antggtcacc | 480 |
| ccagnccaag | gccttcaaga | tgcctttaac | cgtcggcaa  |            |            | 519 |

<210> 10279

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10279

|            |             |            |            |             |             |     |
|------------|-------------|------------|------------|-------------|-------------|-----|
| ggagatggag | tttcaactctt | gttgcccagg | ctggagtgca | atggcatgat  | ctcgctcact  | 60  |
| gcaacctccg | cctcccaggt  | tcaagtgatt | ctcctgcctc | agcctcccga  | gtagctggga  | 120 |
| ttacaggcgt | gcaccaccac  | acccagctaa | tttttgtatt | tttagtagag  | acagcgtttc  | 180 |
| accgtgttgg | ccagcctggg  | ctcgaactcg | agacctcagg | tgatccccct  | gcctcggcct  | 240 |
| cccaaagtgc | tgggattaca  | ggcgtgagcc | accacgcccg | gcgctcctttg | taaggtttct  | 300 |
| atccactatg | aattcttcga  | tgttttgcaa | ggtttgaatt | ttgagtaaag  | accttgccac  | 360 |
| attggttaca | tttgtaagg   | ttgctccagt | atggattgcc | atatgggtaa  | gttaggggtg  | 420 |
| aacgaacact | gaaggctttc  | cacactcatt | acacctataa | gggttttttc  | cagnngggaat | 480 |
| tcttctatga | tttgcaagat  | gggangtttt | gaagtgaaga | ccttgccaaa  | ttcgttacat  | 540 |
| ttggaang   |             |            |            |             |             | 548 |

<210> 10280

009270 6946969

<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 10280

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcttttta  | aaatttactt | attacttggt | cttagcaaat | taagacaatt | acaataaaac | 60  |
| atcagctaac | tgggttcttg | tgagaaaact | gaggtcagct | tggaaggag  | ttccccgagt | 120 |
| ggagttccca | gcggcccgcg | gctgacggcc | agatctgtcc | tgaggggtcg | tgggagccca | 180 |
| gcgcctgcct | tgagggaat  | gaacactgaa | aacaggattt | gggagcagta | ttggattgac | 240 |
| agcagagaag | ggactgtttg | taagggcagt | ttctcactga | agctgctacc | attttccttt | 300 |
| gtaaagaagt | catccacctc | ctcccagcgg | tgcccatttt | caagacgctg | cccagacctc | 360 |
| ttaaacagc  | ttcttgaaag | ggtttttcca | caacgggttc | tggaatgttc | tgcttcagct | 420 |
| ctggaggatg | ctctaaatta | gttcaccatg | atgaagttag | atttgcagtg | agctataact | 480 |
| ccgtcacagg | gtcatgctcg | ccttcggttt | gatggtacct | gonagctgca | ttctcaggat | 540 |
| gggga      |            |            |            |            |            | 545 |

<210> 10281  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 10281

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gagatggagt | ctcgcctctgt | cgcccaggct | tcctgggttc | acgccattct | cctgcctcag | 60  |
| cctcctgagt | agatgggact  | acagacgccc | gccaccatac | ccagctaatt | ttttcatact | 120 |
| tttagtagag | acaaggtttc  | actgngttag | ccaggatggt | tttgatctcc | tgacctcgtg | 180 |
| atccacctgc | cttggccctcc | caaagtgtcg | ggattacagg | cgtgagccac | catgcccgga | 240 |
| ctcaaggttt | gaattttcaa  | cataacttaa | gaaaccctca | tcctttgggg | ggatgaccgt | 300 |
| gagtgcagtt | taaaaaaaag  | aaaagaaacc | ctcctatgaa | ttaaacaggt | cttggttaga | 360 |
| gggcaaagtt | ctccttctaa  | ttanaatgna | agggacctga | naactctatt | catgnctaaa | 420 |
| ttgcaagggc | cataaagggg  | ccaactcatt | atanggggnc | aataaagaat | ctggtngata | 480 |
| gatgaattaa | aaacgacctg  | ggnaaanaan | ccggttttaa | tttncatc   |            | 529 |

<210> 10282  
<211> 512  
<212> DNA  
<213> Homo sapiens

<400> 10282

|             |             |            |             |            |             |     |
|-------------|-------------|------------|-------------|------------|-------------|-----|
| aaccaactta  | gttcagcatc  | cttatctcat | tatgccttag  | ctacttgaag | gtgatctatg  | 60  |
| catcctcttt  | cacacttaaa  | taatcaagag | gtgaacctgg  | caaatttata | ottataacttc | 120 |
| aagatttagg  | ttgaagttat  | cattctctat | gaatactccc  | atgtgcatgg | ttcattttatt | 180 |
| acagtgtgtg  | aattactctt  | tttttaaagt | tgtttaattt  | tccttttttt | tattataactt | 240 |
| taagtttttag | ggtacatgta  | cacaacgtgc | aggtttgta   | catatgtata | catgtgccat  | 300 |
| gttggtgtgc  | tgcaccattt  | aactcgtcat | ttaacattag  | gtatatctct | taatgctatc  | 360 |
| cctccccctt  | ccccccaccc  | cacaacaggc | cccagtgtgt  | gatattcccc | ttcctgngtc  | 420 |
| catgtgtttc  | catcgtntcaa | ttcccaccta | tgagtggagaa | catgcngngg | ttgggtttct  | 480 |
| ggccctgggt  | cagnttgccc  | anaatgangg | tt          |            |             | 512 |

<210> 10283  
<211> 558  
<212> DNA  
<213> Homo sapiens

<400> 10283  
atttaaatac atttatttga accggccttg gggaggcttg atgttgatgg gttgggtgatt 60  
aaagcctccc aaagccaatc cttggcatgg cctttgggac tcaaaacaca ggatctgact 120  
ggtgggcaca ataccatctt gaacgcccac aaaaagggtt ggttttgttg ccaaagggca 180  
ggtggctcca ggcagggctg atgggtggcag ggtgggggtga ggacaggaca agagatctgg 240  
gtgtggaagg atggccgggt ttctgcagca gcaggaggaa aggggtgggag cacacaggca 300  
cagaacactg tgagcaggac tgccaggcca gtgtcacaag cgctaccatc tgggtgtaga 360  
cagacctgag ctgacaaagc tggggggagca aggccaacgg ctttaaacac aagctcaggg 420  
gcttgggggtt tatcccgagg gcacagggca nccatgtagg gtggagttag catgagttaa 480  
gcctgggctg ggtgtgtana ctggacaaaa gtgggttangg cangcagtga ccantctgtg 540  
tgcaanaaac tttntggc 558

<210> 10284  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10284  
gcaaagattg ttggaaataa tcctttctctt gtacctagaa acataggtgc aaatttctga 60  
tatctttgtt ttatctgcat tcctgccttt catgaaagtc cctcttgatt gtgctgaggc 120  
tgtggctcag cgaagacact gaataaatac gatagccact gttgcttgtt gcttgtccaa 180  
gtcttcctgg cttctgctgc aagaggggga tatggagaag gtgggccagg gtgtgtggac 240  
ccgggcagaa tctggggaag aagcctgcca ttctctttt tttccacac caccgaaccc 300  
actgcccttc ccacccccac agccctttta tgaaatcaga caacgtggtg gttggaaaac 360  
agcagggcct ttctctggtg ttttcaacca gaagtgtat tccacaagtt ttaactggtt 420  
actngaaagt ccaagcggcc agaattngga aaatgtcact ggaacactgn agccngggac 480  
cttaaagacc gtaggccttt taaaatttgg taaaaatttt gggaggggctn ttacaagngg 540  
naattttttt tttttt 556

<210> 10285  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 10285  
aaataacttg attttatttc aggccaaagc ccctccactc tgaactaaat gccatgacag 60  
tcccacagca taggctggta gtaaaagagc ccacagacag ggtaggatag ccagaggagg 120  
gaggagtggg cgacagggag gggaaggatc acacacacaa acctaaagat agagcaatgc 180  
agaatgcctg tggcactcgg ctctaccag ctctggctct cagtggagat gaagaatggc 240  
agcaggagga cagaatgcct cattgtctga aggagagcgt gttgtttctc atctccatcc 300  
ccagagccct ctctttcagg caggcagaaa caaagccctt gcacccact gcaactgcga 360  
acacagcaga gacgctgggt gcggaagccc tggaggcagg gagctgctac caaaggagaa 420  
gaaaaggatt ccaaaaagaa aggagcccac tctaaccctg cggaaaagat ggnccatgtg 480

ctgctttata acccgaagaa gacagtaacca gccccggaca ggcttttcaa aataaangnc 540  
cctgggcttg t 551

<210> 10286  
<211> 539  
<212> DNA  
<213> Homo sapiens

<400> 10286  
gagacagggt cttgctctgt tgcccaggct ggagtccagt cacaagctct tggctcacgg 60  
caacatcccc ctcaggctca ggcgatcctc ccacctcagc ctcccaagta gctgggacta 120  
cagatgggtg ccaccacat gcccgcttgg ctagtttttt tttttttttt tttganacgg 180  
agtctcgctc tgtccccag gctggagtgc agnggtgtga tctcggctca ctgtaagctc 240  
cacctcccaa gttcacgcca ttcttctgcc tcagcctccc gagtagctgg gactacaggc 300  
acctgccacc atgcccagct aatttttttt gnatttttag tagagacggg gtttcaccgt 360  
gttagccggg atggtctcaa tctcctgacc tcgagatccg cccgcctnng cctccaaaag 420  
tgctgggatt acaggcgtga gccaccggcc agncctgnct ggctagtitt tggaattttt 480  
ggaaaaatgg ggcntggtat gttgnccaag ctggcttgaa ctctgagctt aagggtccc 539

<210> 10287  
<211> 548  
<212> DNA  
<213> Homo sapiens

<400> 10287  
gctagtattt aagaacaaag ggcattgtgtc gtaacagggg atctaattac tgtaagccag 60  
aatgattgct gaaatgtcaa aatgtaagat tgaatgaggc tatttaaaca ttttagtata 120  
ttttgtctta ctgaaattga taaaaaaaaa aaactggcaa tgtaactaaa tgcgtaacta 180  
attacttgaa ataaaaagat tacttgaaat tcaaatagg aaaaatccat ttaaatatat 240  
ttgtgggtga taatctccat ctgcatccat ttatataaaa cttaaaatgc caaaaaataa 300  
agaccaatat taatctcttt atttctgaat gagatgaaat cactgacatg tttgatgctt 360  
ccactattag aatataccct ttaaacacga aaagaacaac tgcaggagct ttaacatcca 420  
ttatcatggg tgaacatctt tgttacttct aaagncatca cacctatttg ggaggtnaaa 480  
aacctgaaat taaaagcttg naccaaagtc tgggttttaa aaggcaattt aattctgcat 540  
tctggaan 548

<210> 10288  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10288  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 420  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 480  
nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn nnnnnnnnnnnn 540  
nnnnnnnnnnnn nnnnn 554

<210> 10289  
<211> 565  
<212> DNA  
<213> Homo sapiens

<400> 10289  
aggtgcaaac ctgggtttatt acgtttctttg gttaaataatt gtttctacat cctttcagag 60  
cattaggaga acaaagataa tatttgatag aaagactgaa aacacatcct ttgcttttca 120  
gagaaaagac tgaattttaca ctgggtactgt tagaaattct tataattagg ctgacgtat 180  
aagaagttag ggcttttgct gttgcttgta tgttttgaaa aatacattcc cctgggctag 240  
ccaacatcac tgtcctgaga cccagacctt caggagtctc ttgataaagg ctgctccgca 300  
catggtcaga aaagtcgggt cagctcatca tgtcgagact gcatgggtca gtgttgccat 360  
cactgcgcaa cgcctctgcc acatctcttc tgaatcagac agattttggg gtgaacctgg 420  
ctctgggtctt gacggacagg ttctgggtcca ctcttctcatt aaggttcttg aagcactggg 480  
ccaaggacct cctgcttggg gaagggtctg ctggttatna acttggtnnt aagttactgg 540  
aaaacctnn natggnccc gataa 565

<210> 10290  
<211> 512  
<212> DNA  
<213> Homo sapiens

<400> 10290  
aaacacaaaa tagtctttat ttgtcaacga aggctacacg ggatcacttc tggttttggt 60  
tttatgcttt tttttttcta gaaggatatc acatctgcat ttattttacag ccttgttgggt 120  
atttacacag tcaagataca gtgttagaaa cacaaaagtg ttgagaaaaa aacttctcaa 180  
aattagttcc agacttcagg aaaatgattt ccacatggta aggccagagt ctccagtgtt 240  
ggatcatccag aagcagcttg gtacagactc cttttgccga agctgcgggt tcagagggtgc 300  
tcagaacaac aggtggattt agaaaagtgg gattctgggtg ttgggtgaat ccagggtctgc 360  
tggggcaccg ccagacacct gaggctcagc tcctgccagg acggcccagc gtgctccaaa 420  
ctaagccttc cttggctgggt cgnccctcaga ataaatcaca tttcttgggg ancnagaagg 480  
tcncctaagn nccttgcctt tggcattcca na 512

<210> 10291  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 10291  
caggctataa ataagaattg accttttcgt gggtcacaca tttgttgctg aagtcttcct 60  
gtggggctgg gaaaagagtc aaaacctga atcttgaata ttcttctggt gaaaaactca 120  
naacgccagg tggcgtctct gcagacagct gtgtcccgat gccccatttc tgggccctgc 180  
cggaaggctg acactatgga gcttgtgctc cgtgatgccc agggcttctg tgaatggcta 240



|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| catgctggcc  | aggctggtct | tgaactcctg | acctcaagtg | atccaccccc | ctcagcctcc | 240 |
| caaagtgtctg | ggattacagg | cttgagccac | cacgcccggc | tcccatagct | gctttttgta | 300 |
| gttttctggg  | gatatcaggg | gcagactggg | tcataaaatg | tcctcccaaa | aggggtttgt | 360 |
| ctctcctttg  | aggcaggatc | agtgatatta | tacttcogat | tgcttcaact | aatgcccctt | 420 |
| gaaacaaacc  | tggattctta | tctttatcct | gagaatcttt | cctnacctgg | tcatagatac | 480 |
| angcnttttc  | aaacaattct | tnatcctttc | aacgaacaag | ggccctttga | acctttcttc | 540 |
| ccaaggccta  | ntgggccttt | ggaaaatccc | c          |            |            | 571 |

<210> 10295

<211> 500

<212> DNA

<213> Homo sapiens

<400> 10295

|            |             |             |            |             |             |     |
|------------|-------------|-------------|------------|-------------|-------------|-----|
| acatatcata | taaatatatt  | tgttcaaact  | acaaagggat | ggatatcagg  | gggaagcttt  | 60  |
| tattgctgtg | gggggacctg  | gagagggagg  | ggggccttgg | aaatggggat  | acctggggacc | 120 |
| acttgttccc | ccatttcctc  | acagaaggca  | caaatacatt | atttctttcc  | atgtgaggag  | 180 |
| atgcgaggag | aggatacaga  | atacaggaat  | cctcaaaaat | acaaaaaacc  | cctccaaact  | 240 |
| gaatacctaa | ggttatggaa  | aaggctaggg  | tggggcacag | aagtcaatgg  | gggaacagaa  | 300 |
| agaggaacca | atgaaactga  | gaaccaaaag  | ggacctgaga | ggccatgatg  | tccatgctgc  | 360 |
| tgctctgtg  | cagaccccag  | agaaaaactca | ggtaaaccaa | cggaaaactcc | aaataagaaa  | 420 |
| gggtaggggn | gccccaaagaa | ttggcctttg  | ggcatcagac | caaggantgt  | gaatgtaatt  | 480 |
| gnnngtgtnc | anggctgggt  |             |            |             |             | 500 |

<210> 10296

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10296

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| aatacaaatc | tactggtgct | taaaactcag | agcttaggaa | acacagccta | ggtaaagacc  | 60  |
| aatcttcttg | ctgcatatit | cacagtattg | aattctttct | tggtaggttc | tccatacaag  | 120 |
| ttatgaagca | ggataaaagt | cagtcttata | ttaagtcatt | gtaaatacgg | ccttaatttc  | 180 |
| aatcaccaaa | gaaatgtatt | tttgttgtat | accatggttg | cagcatgttt | tattaaaaact | 240 |
| aattatatca | atagctacct | gtagagtatc | aacttaaaaa | ttataatgcc | atttctatga  | 300 |
| agtcattact | tttataggac | tagcctgtgt | catatgtgtg | atcaatattg | gtttaatgca  | 360 |
| gaaacaaagg | cagctgggtg | tccaagcaag | ccacttttct | gggtcagggt | ttcagtggta  | 420 |
| ccatagatgg | ctgccagtct | caatgtcact | ttggcccatt | tatctttata | aatcatacca  | 480 |
| tatagcttcg | atatttccat | ccnttnaact | ggagggccgg | ccccggggnt | tacgcctgga  | 540 |
| atcccagccc | ttttggaggc | cgaggcgc   |            |            |             | 567 |

<210> 10297

<211> 515

<212> DNA

<213> Homo sapiens

<400> 10297

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| cgggtgcaag | tcgtttattc | gggagctgat | tcctggaatc | acgganaggt | ggtgaggaag | 60 |
|------------|------------|------------|------------|------------|------------|----|

|            |             |            |             |            |            |     |
|------------|-------------|------------|-------------|------------|------------|-----|
| acagccaggg | aaggaggana  | gctgctgagg | gccacgcgaa  | tgagctntgg | ccagggagcc | 120 |
| accaagagtc | agtgtaggat  | gcacctcgga | atcatgccac  | taagggcatg | gaggctggag | 180 |
| tggaaggaa  | gctgggggtat | ttccactcaa | tctgggctct  | tattgttana | naggngcctn | 240 |
| tggaaggcat | cgaacccctg  | aaactttcag | totaagctgt  | ccatgtgcag | atgatgtcag | 300 |
| agaaagccct | cagggagaga  | gtcacaggtc | cttgggtgaag | gaagtcatct | gcctgtacag | 360 |
| gaactgtcct | ccagtagacc  | aacggaaaag | tgtgctggac  | ataaacaaca | ccacactgac | 420 |
| caaaggccca | naagancntn  | ggaacttgca | accaggcgct  | taaaactngc | acaaggtgaa | 480 |
| agnctcagga | nttaaagtcc  | aaaatttgat | gggna       |            |            | 515 |

<210> 10298

<211> 581

<212> DNA

<213> Homo sapiens

<400> 10298

|             |            |             |            |            |             |     |
|-------------|------------|-------------|------------|------------|-------------|-----|
| gagactgagt  | ctcgctctgt | cgcccagact  | ggagtgcagt | ggcacgacct | ctgctcactg  | 60  |
| caaaactccaa | ttcccaggtt | cacaccattc  | tcctgcctca | gcctcccaag | tagctgggac  | 120 |
| tacaggtgcc  | tgccaccaca | cccagctaata | tttttgtatt | tttagtagag | atggagtttc  | 180 |
| accatgttag  | ccaggatggt | cttgatctcc  | tgacctcatg | atccgcccac | cttggcctcc  | 240 |
| caaagtgctg  | ggattacagg | catgagccac  | cgcaccgcag | gaggtctgat | ggttttataa  | 300 |
| ggggctctcc  | ctgcttcgct | taacacttct  | ccttcctgct | gccttgtaga | gaagatgcct  | 360 |
| tgcttctctt  | tcaccttctg | ccatgattgn  | aagtttcctg | aggcctccca | gccatgctgt  | 420 |
| gaaactngaa  | gtcaattaaa | cctctttcct  | ttataaggta | cctagtcttc | gggcagtctt  | 480 |
| tacagcagta  | tgaacctgga | ttaatatcct  | agtaatcaat | cctttnccaa | gcattgggaag | 540 |
| notacctgca  | caatttcttt | nnagnncntt  | taactcttgg | c          |             | 581 |

<210> 10299

<211> 578

<212> DNA

<213> Homo sapiens

<400> 10299

|             |            |             |            |            |             |     |
|-------------|------------|-------------|------------|------------|-------------|-----|
| ctggaattat  | ttatccaggc | agaagtataa  | gaatggaatt | aaattatctt | ttgagtttct  | 60  |
| cttaatccaa  | aggcttaaat | cccttgccag  | taaaaaggac | aaaacaaaaa | gaatataaat  | 120 |
| ttttttctat  | aggactcatg | actccaggaa  | aatacacaaa | tcccttttta | gaaaaatctg  | 180 |
| atgttttcac  | ttggtatatt | tccatctctt  | ctttatcccc | tccacacctg | gagctcccac  | 240 |
| tgaatttctt  | aagacagact | ctcagccggt  | gtaattagat | gggagaatta | catggagtta  | 300 |
| catgggggtga | gatgctggcc | ctctgggata  | tctgggttcg | gagaagggtg | caggggtggag | 360 |
| aggcagaaca  | agtgggattg | tgcatgataa  | catctcaagt | gattttctca | gtcagaagat  | 420 |
| aaagcatatt  | ggtaagaagg | gcactctacag | cgaagcttgc | attgagacag | ttacaattgc  | 480 |
| acaactcattt | taaaaacaaa | ctggccaagn  | aattncngct | ggcgtttaac | cctgggaaga  | 540 |
| ngngaacagc  | tgggagtggg | ttccccccaa  | nccatggg   |            |             | 578 |

<210> 10300

<211> 463

<212> DNA

<213> Homo sapiens



<400> 10300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccagtcgggt | tggagtttat | ttctgccaga | gcctggaggc | tgggagggt  | aaggacactc | 60  |
| ctttagtccc | agagggaagc | tccgaaccct | cagagcaacc | agaaggagg  | gcagagcatg | 120 |
| ggcagcagca | ggagttagag | gggtccctt  | gtcctgccc  | tttgcaagg  | ttcaaggctg | 180 |
| gtggaggcct | ggggcttctg | tcgctcagga | gttcagggt  | ggacgcagaa | atgggggaag | 240 |
| gagagtggct | acgtagagag | tgagagcgag | attcctaaaa | agatgcacag | agagaccctc | 300 |
| agagaggcca | agaaagatgg | tgaaaaggta | aggaaagaaa | aggaaaggaa | aaaagaaaaa | 360 |
| aaagaaaaga | gaaaccnnag | ggaaatgggt | tgacttggt  | taagaatggn | ngaaggancc | 420 |
| gnccaattcc | tttcctaagg | ctatngaato | aataccgggg | gaa        |            | 463 |

<210> 10301

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10301

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| atttatttcc | actctaattc | ttgtttcccc | tattctgcta  | gcttgggttt | agttcttctt | 60  |
| ttttaggtc  | ctttaaagt  | tatagttagg | tgactgattt  | gagatctttc | ttttattttt | 120 |
| tatttttatt | tatttatttt | tttttgagat | ggagtctcac  | tctgtcgtgc | aggccggtat | 180 |
| gcagtgggtc | aatctcggct | cactgcagcc | tcaacttctt  | ggttccagt  | atcctcccac | 240 |
| ctcagcctcc | caagcagctg | gaaccacagg | agggttaacac | cacaaccagc | tgatttttgt | 300 |
| attctaggta | gaggtggggc | ctcactacgt | tccccaggct  | ggtcttgaac | tcctgaactc | 360 |
| aagtgatcca | cctgccttgg | cctcccaaag | tgctgggatt  | acccgcctga | gccactgcgg | 420 |
| ccagccagtt | gggcaagtgt | tttctttttt | ttctttttnt  | tttnnttttt | ttttgggaan | 480 |
| ggagnctcac | tttgttgncc | aagcntgaat | gcattggc    |            |            | 517 |

<210> 10302

<211> 596

<212> DNA

<213> Homo sapiens

<400> 10302

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctttctttct | atcttctctc | tctctctctc | tctctctctc | tctctccccc | ttcctccctc | 60  |
| cctccctctc | tctctctctg | agagatgggg | tctcactatc | ttgccaagc  | tggtcttgaa | 120 |
| ctcctgggct | caaatgatcc | tcctaccttg | gcttcccaaa | gtgctgggat | taaaggatat | 180 |
| agccactgca | cccgccaatt | tttaataagc | attattttta | gtaagcaaac | actctctaca | 240 |
| gcatagaaat | tgcttatttg | ttctaggcat | tgttcaagaa | gtgggatcct | gtttgtggct | 300 |
| cccagagtct | ctgaggtaga | aaccactaga | gatgaagaaa | tcgaggcaga | cagatgaagt | 360 |
| aacttggctg | agtgcaccag | caggcaagag | gcagacctgg | ggttcaaacc | cagccagcag | 420 |
| gactccagag | aatggggctc | acaagccgct | ttgctatacc | gcttttggac | tacctgggca | 480 |
| gctgaaatgc | aaatcttaag | gccacctgg  | ttaagcacac | ttttcaaggc | cttgaactgg | 540 |
| aaangaccca | ncagggccct | taagagcagc | cgattaacca | ccnttggtgg | tgggac     | 596 |

<210> 10303

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10303

|             |             |             |             |             |            |     |
|-------------|-------------|-------------|-------------|-------------|------------|-----|
| gaaatgagac  | agtttagtttt | tattttattcc | actttttgttc | taggttttcac | tgaagaaatg | 60  |
| ttggttttcac | agtgtctgccc | agattccccc  | gggctgttat  | ctgcatatta  | ctttctgtct | 120 |
| gatgggtcct  | ctgggtagct  | gatacagaca  | tggagttcaa  | agagcaagag  | atgactaagc | 180 |
| gtgactcctg  | ggaaaaataa  | aagtgggtag  | aagcaggctc  | aggtatggaa  | aaccttctgg | 240 |
| ccactgtgga  | ggtctgacag  | cttagaccac  | attgcaggctc | acaggcagta  | tcggccaact | 300 |
| ccacagggag  | ttctagggtg  | tggagcctca  | tgttgggctg  | aatcagccat  | gccctgtgcc | 360 |
| tttctgtgcc  | cacgtattgg  | ctggggactg  | cagagaaaaga | ccatggcctt  | aacttgaaag | 420 |
| ccaaggccga  | ccttaaatga  | actaccagat  | gcaggttggc  | aatggtagct  | acctgcactc | 480 |
| attgntgggg  | aananaaagt  | cttctntaag  | ggaaatctga  | aagcttttgg  | cctgggcttg | 540 |
| catgnaactn  | tng         |             |             |             |            | 553 |

<210> 10304

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10304

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| ctggtcctaa | cacaaatgtg  | aattttattgg | ttgatttgat | atttaaaata | gtactttttac | 60  |
| aaaatcatct | cagaaaatat  | actacattta  | ttaaaattcc | tacaaaccat | tgcagaaaat  | 120 |
| attaaaccct | ctaaccaacc  | taacactcgc  | tttcagaggc | acttgtgatg | attttcacag  | 180 |
| cttccatagt | tgcaaagaac  | aaagaaatca  | tcttccaaca | ggggtggaat | tagataagaa  | 240 |
| taatccaaaa | aatattttatt | tctttacaga  | ctcacagatt | gcttgatgtt | taggggctct  | 300 |
| tacctaggat | acctaattat  | tcaaggtttt  | cctaatttag | tagacttttt | cattgcctac  | 360 |
| aatctacaat | attcagcaaa  | gtattaagga  | aaatgaaccc | aagaacctta | acccctcaaa  | 420 |
| taggtttatg | gatatactaa  | actggcaagt  | acaatcttta | tottaagact | tgagaacggg  | 480 |
| atgcaggaaa | acaaactttg  | gnggaatctg  | gaataaggnc | ttaagctggg | caaactaggc  | 540 |
| gngnaancct | ggatgggttaa |             |            |            |             | 560 |

<210> 10305

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10305

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctttctttct | ttttttcttt | tcttttcttt | tttttttttt | tttgagagng | tctcactctg | 60  |
| ttgccaggct | ggagttcagn | ggcacaatct | cggctcactg | caatctccgc | ctttcgggtt | 120 |
| caagcgattc | tcctgcctca | gtctcccaag | tagctgggac | tacagccatg | ngccaccaca | 180 |
| cccaattaat | ttttgggttt | ttattanaga | cggggcttca | ccatgttggc | caggatggtc | 240 |
| ttgaactcct | gaccttgtga | tccgcccacc | ttggcctccc | aaagngctgg | gattacaggc | 300 |
| cttagccacc | gngcccagcc | aacacatttc | ttatacaaca | tggttttgag | ttattttacc | 360 |
| tacaaccaac | tccagctggt | ttaatgngta | gcttacagaa | ttgaaccac  | ttttttcaga | 420 |
| cttggctacc | ttttctacaa | gggaaaaaag | gcattttaca | agacacagaa | gcccctaagt | 480 |
| ttggaaatct | ctgncaaaaa | aggggganaa | naaagacttt | ttcaaggnc  | cgaaagggga | 540 |
| actatgggga | aaggattaac | ccccccaa   |            |            |            | 568 |

<210> 10306

<211> 569

09629469.072800

<212> DNA  
<213> Homo sapiens

<400> 10306

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gttttgctaa | actaagattt | ccagaatatt | ottgattagt | caattttctca | ggaactaatg | 60  |
| tcttaaacct | acaaaaggaa | gcaggacttg | agggaatatg | agcaagtttc  | agaggcagaa | 120 |
| ggccctcact | gagcttccag | taatgttccg | tggaagctgt | gtgacttttag | gtgagacact | 180 |
| cgggctgccc | cagagatctg | gaacaagtcc | ctcctcacag | cgacagcatg  | atgcagggca | 240 |
| ggcaccagca | aagaagggtg | tggaactttt | taaaaactct | gtttgggggtt | acctgactgc | 300 |
| accaggttat | atctaaatgg | ccattcccca | aaagttttta | agtgggtgaaa | ctggtaagtt | 360 |
| ctgtaatttg | ctttcaaata | atcccaaaag | tggtcatttt | ctctacaatt  | ctatacatac | 420 |
| ttctgtacca | gacatgggca | gtacaggatt | ttttaatcca | cctanggaag  | tcccctgttg | 480 |
| tcaggaaatg | gcatatttca | cccttaaaag | ggccctcttg | ctctttgntg  | ggaacttttn | 540 |
| ccctcttggn | ccttctcttc | ttatnanco  |            |             |            | 569 |

<210> 10307  
<211> 553  
<212> DNA  
<213> Homo sapiens

<400> 10307

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ctcattaaca | caaataat   | ttgatactat | ttatacagta | aattaggttg  | aatgtgaagt | 60  |
| tttgatagc  | ctgaattcac | cattttcttg | tgcacaaatg | ggcatttttc  | tcatttacia | 120 |
| atgggcattt | ctctttggca | tccattaggt | atttgccag  | atattggcct  | ctgtcaaata | 180 |
| ttttttaaaa | atcaacctag | tttctattaa | acaaaactaa | aagtgtattct | atggagagt  | 240 |
| attgtatgat | taccaaacac | atctgatgtt | aaatgtcatt | aaagtgtctgt | ttgatgatct | 300 |
| ctgcggtttg | tgctaattaa | gacagagagg | gctgggattt | tataaatccc  | aagagtctta | 360 |
| totgaacagt | ctgcatataa | aagttgnttt | ttagcctggg | gaagggtatc  | catgaagccg | 420 |
| gggacttntg | gcattctggc | cttgctgggc | aagtaccagn | catntttcca  | acggnatctt | 480 |
| catgtcccat | aggtttanga | gctggcaagg | atctggnaac | aggcttggca  | agtttgcctg | 540 |
| aaggcnctgg | tat        |            |            |             |            | 553 |

<210> 10308  
<211> 538  
<212> DNA  
<213> Homo sapiens

<400> 10308

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| gaaccaatca  | atcactggag | acacacagac | tccacctgta | tcaaacgagg | ataccagcca  | 60  |
| cccanacagc  | cccagtccca | gctccatcca | tcttgcaatc | cctcctccac | agcacagcac  | 120 |
| agcccanacg  | ctgcctntgg | gaaggaagcc | tgaggccana | gttgctgagc | ctntgggaaa  | 180 |
| atctggaaaat | ttggtttccc | caagatagac | tccacctcct | ntggaaagat | gctgngctcc  | 240 |
| tgacagggct  | ttgtctccct | gggaaggaat | ccatgtcttg | ggaaggctct | gcattcccagg | 300 |
| aaaggctcca  | cacctgcagg | agggactcct | tggtcctgag | ggactctgtg | cctgcataagg | 360 |
| ctccagtcct  | taanaaggac | tccatgatgc | angggggact | ccaggccctt | aggaagttn   | 420 |
| catgtcctgg  | gaaaggnttc | caggtcccca | ggcttgnggc | caanatcccc | agggcgaaaa  | 480 |
| actgggtcca  | aacaggttcc | anagnccatg | ttggncaact | tgaaccacct | gggnaggn    | 538 |

<210> 10309  
<211> 547  
<212> DNA  
<213> Homo sapiens

<400> 10309  
aaggcattag acgtttgatt cttttatttc catatgcaat gtaatgttta ggcacgctgc 60  
ttgggatgct acttctaaaa aaattgttgg ccatttttca gaatatcctt ttggttttta 120  
atactgggtca ggaaaaacaa atgatgtaaa aatacgtgaa taattttcta ttacagaaat 180  
gaaaaactga tttgcatcta aaagtgcgaag aggtgaagta atttaaccct ttcaccagac 240  
gatatggcaa tatacaatat attgcttgag ctgtttgaga aggcctgtgat gtatttttgt 300  
attgacatag aaaattataa attacattga attagtatcc ataataccta tatatataca 360  
caaaccagtt ctaaaaaaaaa tacactgggt taaatttatg agtgaaaacc tcacaaggtc 420  
agtaaacaat tagcatgctt cgggccagat tttggattct attttaaaat ctagcctgta 480  
aaatgaacca ctctaattca ntagcagccg agccttttca ctgacttgcc nataggatta 540  
tttaggg 547

<210> 10310  
<211> 568  
<212> DNA  
<213> Homo sapiens

<400> 10310  
ctttcaacaa ggtcttgttc tgtcaccag ccaggagtgc agtggcacga tcaactgctca 60  
ctgcagcttt gacctcccag gctcaggtga tcctcccacc tcagcctccc gagtagctgg 120  
gactacaggc atgcaccacc acgtccagct aattttttgt actttttgta gagacggggg 180  
ttcaccatgt tgcacaggct ggtctcagac tcctggggctc aagctatccg cctgcttcgg 240  
cctcccaaag tgctgggatt acaactggga gccaccgtgc ccggcccgag atctctcctt 300  
taacaagaag ttttttgctt tgaaaatgtt tgcaaaaagc gtttcttgat tctgtcacc 360  
tgctcccaa gcaacacgtg actacttgca actcantaaa gaagaagtgg ttgaagttgc 420  
tccttagccc ttaaaaaatc attaaataat cctctaggng gatttttaac actagcaaga 480  
aaagctaagg gaaatggcaa gaaaggangc gggactttcc angttgggcc acgaaatacg 540  
ggntggcttt cctttanacn aananggg 568

<210> 10311  
<211> 531  
<212> DNA  
<213> Homo sapiens

<400> 10311  
aaagtctaaa attatttttt taatgagaag ttattttttt cacaagcctc ctgaaaaata 60  
gcgttataat gccaccattc aattacacgg taagacagta ataccccacc tttctatgga 120  
gcccttggag gtgccaggca tgtgctaatt tgaggtttat ctcatgaat cctcacagca 180  
atcctaagaa ggagatgcta tcattacccc cagttttcag atgaggaaac cttcagctca 240  
gagaggtgaa gtgacttgcc cagggtcaca cagccagtaa gtgatgaaac tgtgtggctg 300  
tgctctctga atccagagta atttaaaaag tccaagtagc agcacatagg atccacaaca 360  
ctggatgaca ggggtcgcgc tgttcagagg actggggggc actcccatgg ctgcagatcg 420  
aactctacaa tcaccttcaa aagngcctgg gcctttgcta tgcctntggc caccttctgn 480

tgntttctggc atngngctgnt tactggcttc accagncctt ttctacttcc t 531

<210> 10312

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10312

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| aagataagtc | ttttgaaaaa | tagtagaaat | agctgaaagg | caagttcagt | gtttgacaat  | 60  |
| cttcaggggc | ttgagggatt | ataagtacct | catagtctaa | atttgagcat | attctttttg  | 120 |
| gccattttga | tagggtttgg | ctgtgtcccc | acccaaatct | catcttgact | tgtggctccc  | 180 |
| acagttccct | cgtgttgtgg | gagggacccg | gtgggaggtg | gttgaattgt | aggggggtggg | 240 |
| tctttcccat | gctgttctca | tggtgatgaa | tgagtctcag | gagatctgat | gattttgtag  | 300 |
| gggagagttt | ccctgcatca | gctctcttcc | cttgtctgct | accatatgag | acgtgccttt  | 360 |
| aaccttccac | catgattgtg | aggcctcccc | agcctcatgg | aactgtgagt | ccattaaaca  | 420 |
| tctttctttt | gtaaattgcc | cantcttggg | taccgtcttt | atcagcaca  | gaaaaggac   | 480 |
| taatatcatt | tattctgaac | atacttactg | gacattnaat | aggngggaaa | actctggctg  | 540 |
| ggggnnnaat | ttgaatgaan | ctaatccttg | c          |            |             | 571 |

<210> 10313

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10313

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| goccttttca | ttttctttta | atgtccagag | ctttcagtg  | tgtcatactt | taattcaaaa  | 60  |
| gtcaacataa | aagttaata  | catatagtaa | gctgaaaagt | gttagtgaaa | tgagctgagc  | 120 |
| tttgcttttc | caaacatgtt | tccaaaagtt | tattttaaaa | cacacacata | gtgtcagata  | 180 |
| caaacgcctt | ttaaccactg | tggtggggaa | gagtaactg  | attgcttcca | atgatcatct  | 240 |
| cttccctctg | cgtccactgt | tctcagagtc | tcaggaggta | tgagaggatg | tgtctcttcc  | 300 |
| tttacttccc | tgtttgtgt  | aatgagtcct | tcgatgagag | taattacgtg | accgaatttt  | 360 |
| ccataactat | ttgntgatta | ttaaagtttt | gcagtggctg | gntttcctaa | tggggncctta | 420 |
| caaccaagca | tttcttctaa | attgggtgng | gcanggtcat | tcacattaaa | tataccggta  | 480 |
| ttaattannc | tcttctctc  | actactccga | gccttaaaca | ggctgnttaa | ggcgttttct  | 540 |
| gnncatcaga | agatatncct | cttacct    |            |            |             | 567 |

<210> 10314

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10314

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gagaaggagt | ctcactctgt | cgcccaggct | ggagtgcagt  | ggtgogatct | cggctcactg | 60  |
| caacctctgc | ctcccgggtt | caagccattc | tcctgcctca  | gcctctggag | tagctgggat | 120 |
| tacagacgtg | ccaccacgcc | tggctaattg | ttgtattatt  | agtagagatg | gggtttcacc | 180 |
| atgttggcca | ggctggtctc | aaactcctga | cctcaggatga | tcacccacc  | tcggcctccc | 240 |
| aaagtgcctg | agttacaggc | gtgagccgcc | gtgcctggct  | gattatgctt | ttttaaaaca | 300 |
| gaaatgaagc | atttatcttt | ttctctctgc | ctaaccctc   | cagaattcaa | aaattctttt | 360 |

|             |             |             |             |            |             |     |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| tttggangggg | tgtgggggagt | tggggggacgg | gagtttgggtc | tgncgcctgg | gctgggagtac | 420 |
| aatggcacga  | atcttagcac  | atnacaacct  | tcaacttccg  | aagtcaagtg | atctcctggc  | 480 |
| tancctccca  | agnnctggga  | atacaggcac  | ctgccaccac  | ggntaantnt | tttttttttt  | 540 |
| ttttgcattt  | ttcaatnaaa  | a           |             |            |             | 561 |

<210> 10315  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10315 |            |            |            |            |            |     |
| aaacttttat  | ctttgtaaac | aacgcacatg | aaccagatgt | atttctcagc | tttacacagg | 60  |
| ggaaaagggg  | aattaaaaaa | atacgcaatt | gccagcaaaa | tgcaaatgtt | taaaaaggaa | 120 |
| acacggagaa  | ccatgggaat | ggaacaacag | acagaacttc | aaacaatgag | agaaaaaacg | 180 |
| aacaaaacaa  | caagagaaaa | cacaacagat | ctgcaatcca | ccaatogott | tttcagctga | 240 |
| atgggggtta  | ctttaagacc | agaagttaaa | gtcactgctg | ctggtaggct | gcctaattcc | 300 |
| gagtagctgg  | ccctgcttca | gggctggggc | accaaagctc | gaggagccag | cctottgggt | 360 |
| gccattctgt  | gatgggggca | cctagtgggg | acttttcttt | aagttcaccg | attactttta | 420 |
| acagcatagc  | tccctntccc | agtccctgct | ggtgggaacg | aacacgttta | tgagaaccac | 480 |
| gtcttccagt  | tctttaaaga | gaacctgggg | ctgggtattg | acagatatcc | gntgggtggg | 540 |
| nttatcggat  | tnggttaant | ttataacc   |            |            |            | 568 |

<210> 10316  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 10316 |             |            |            |            |            |     |
| aaaagcttat  | tttgacttgt  | tgcccgggat | caattgcaaa | agcgcttctg | ttgagaaagg | 60  |
| acagttcagc  | caaactcagg  | ctggttttta | gaaacagaac | tggaggaaaa | aaccagaaa  | 120 |
| acataaggca  | ctgggcaaat  | gtgacgtagg | ctgggatgaa | acccattctc | ccagagccgg | 180 |
| tctctccac   | agcacaaaag  | tgctcctcat | gcagccagct | ggctgagggc | ccggagtgtg | 240 |
| tccacagagg  | gaggagcggg  | gctggggagg | ggnagagggg | aggctggctc | ccgaaatgt  | 300 |
| gacctgagga  | ctgatctgag  | ctgcagttag | cactttttac | ccaggggctg | agcttctctg | 360 |
| gctcctgcga  | catggatgga  | gctctccctg | ccgtgctgcc | agctcaggag | cctgaagccc | 420 |
| aagggcgcgc  | ttctgtaccc  | agcatncant | ccctgncagg | gccttttgag | acccgatcct | 480 |
| ttggtcactc  | tctcctgggtc | agcccacccc | tggcaaaact | ngngatccct | ttanatnacc | 540 |
| ttccctgggt  | anccttant   | t          |            |            |            | 561 |

<210> 10317  
 <211> 567  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 10317 |            |            |            |            |             |     |
| cttttttccc  | agtgaattat | ttttttat   | tgtagagacg | gggtctccct | gtgataccca  | 60  |
| ggctgggtctt | gaactcctcg | gctcaagcgc | tcctcccacc | tcggcctccc | aaagttctgg  | 120 |
| gattacagggt | gtgagctacc | acgtctggcc | tgggataact | cattgtaaaa | ctgggtgaaga | 180 |

09629469.072300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cctgggacct | tcccagtaga | caatgggaca | gagtgattga | caggatgagt | tctggagtag | 240 |
| atggcagaaa | tgtacagaga | agtctcccag | agaaaactaa | ctggctggaa | acagagcctc | 300 |
| tcctttcttc | tttgagagga | tgagagtgtc | actgtcttgg | atgccataga | tccccagacc | 360 |
| caaccagtcc | tgcaggactt | ggccttggaa | ttccagctgc | tgctgctttt | taggaagccc | 420 |
| ctgctggctt | caatctgctg | cttcagaccc | aggatgaaac | ttgttggggg | gatggcatan | 480 |
| gcgtaacttc | cancattagg | gattctttac | gaaaacctgg | atctcggang | ggatggctcc | 540 |
| accnaaanat | ntnaatgtgg | gaaaaaa    |            |            |            | 567 |

<210> 10318

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10318

|             |            |            |            |            |             |     |
|-------------|------------|------------|------------|------------|-------------|-----|
| agacagagtc  | tctctctgtt | accaggctt  | taaggttttt | ggtagacaca | gggtctcact  | 60  |
| atgttgccca  | gtctggtttc | aagctcctgg | ctcctaatga | tcctcctgtc | tcagcctccc  | 120 |
| aaagtactca  | tattacaggc | atgagccacc | atgccctgct | gtaaattgtt | ttgaacagag  | 180 |
| gggtgaaatag | gcttagggag | gaacatactg | agtctgaaat | agaacatcca | gggtggaggat | 240 |
| cagccatcag  | tgagagctgc | acaaaggctc | tgattagagc | attgactcag | cttagagaag  | 300 |
| ggagtccagag | ttcagacagc | cacaggcaat | tcctagagta | agtgaagaga | acaattttga  | 360 |
| aaggcacctg  | ctgaagaaaa | gcaattattc | attcctaaaa | ggcactggcc | gatccctnac  | 420 |
| attgaacatc  | agaaaaagga | cacttctgna | acaaggcttc | tgnggggcca | aagaaaaact  | 480 |
| cttttcnggt  | cctaaaaaat | tttcaaaaac | cgcacnctt  | taatgggaag | cttcatttaa  | 540 |
| aggccttntt  | aaaanaacgt | tccggaantt | ggaa       |            |             | 574 |

<210> 10319

<211> 465

<212> DNA

<213> Homo sapiens

<400> 10319

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aaaagaataa | aatttattgt | actctcctcg | cccagggtg   | cccctgggaa | agcctgaggc | 60  |
| tacttgtagc | cggtggcctt | gngcttcggc | aagaaggcga  | agctgggggg | cactggccca | 120 |
| aggagcatct | cgctgatgcg | gatccagtcg | gctgccttct  | ggctggccat | cagcgtctcc | 180 |
| aggtagtcgc | ggcccaggta | gtagggcggc | cgctcggttg  | tcctotgngg | gagccgntcc | 240 |
| agcagcccca | cgggcacgta | ccggcacagg | aaggacagcc  | actcgagcag | aaagcgccgg | 300 |
| gtcttctcca | cgccctgcgt | gtccgagccc | cagtgtctcca | ggccgtantt | ggtagaagtc | 360 |
| cgcaggatgt | ccaggccgct | cggacgacga | gatgtcccan  | tgccgntgnt | ccttgatctc | 420 |
| cgggaaaagc | cncnggttga | gcaaggcgcc | acgggcnaat  | atgan      |            | 465 |

<210> 10320

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10320

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaagaaataa | aactgccttt | atttgagat  | aacaatcaca | tacatagaaa | atcctaaggg | 60  |
| atttacaaaa | aaagctgcta | aaactaataa | ggagatttaa | cagtatttga | ggacacaaa  | 120 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| catttctgta | tcctaacaaa | gaataattaa | aaactggaat | ttaaaaaatt | atttaggctg | 180 |
| ggcatggtgg | ctcacaccta | taatcccagc | actttgggag | gctgagggtg | gaggattgcg | 240 |
| tgaagccagg | agtttgagac | cagcctgggc | aacaaagcga | gaccctgtcc | acacaaaaaa | 300 |
| caaacaaagc | caggcatggt | gggtatgtgc | ctgtaatccc | agctacttgg | aaagctgagg | 360 |
| caggagccca | ggaaagctga | gacttggaaa | gctaagacct | tgagcccagg | aattcaaggc | 420 |
| ttgcagtgag | ctatgagcat | gccactgnac | tctanaatga | gtggccgaaa | aaataaacct | 480 |
| ctatccctga | gggtactatg | atgcatacnt | gacttgnttt | gggaaaaact | ttaacccttt | 540 |
| ttcccnnggt | ttatcctacc | taacaccan  |            |            |            | 569 |

<210> 10321

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10321

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ggcatttgag | accgttgatt | tttaatat   | tttaaaaa   | atacaaagga | aattaactct | 60  |
| gtaggtcaat | acaactcagg | gaaagaggga | aaaatggaat | ttcagagcaa | aggttggtta | 120 |
| ggttatcaca | ttcccacact | cctaataccc | acaaaacaag | aatttcactc | catgacacag | 180 |
| aggaacattg | aatggtagct | cagaaatgtt | gatagctgag | gtactgaaac | taacaaaagg | 240 |
| atitttggtt | tccttgatta | ttctgtcctg | tgatgaataa | aatctacact | aaaggacagg | 300 |
| taaggaaaac | ttatagcaga | aaaaagacta | gatgtaccaa | acacagcagt | acaaaccact | 360 |
| ccttggcaga | catgtgcttc | taaaagaatg | ggggcagtaa | tcaggtagct | gaactactag | 420 |
| gctactgnca | ctcccagccc | atccccaatt | aaatagnggg | gaagggtaat | agnntagtaa | 480 |
| gtattgatcc | aacaaaagaa | ggntttacco | ccattcaagg | gaacattggc | atggnttnat | 540 |
| naaccctggc | ngggaataan | aagcctgga  |            |            |            | 569 |

<210> 10322

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10322

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnnnn | nnnnnnnnnn |            |            |            |            | 559 |

<210> 10323

<211> 565

<212> DNA

<213> Homo sapiens



<400> 10323

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aaagcagtg  | tattctctg  | ctggtggcag | aagcgtatgt | cagagagatc | agaaaggtaa | 60  |
| ggaggagtca | acatgagaga | gagttgctca | cttgagatgg | aggcgggcat | gtggtctgag | 120 |
| aatgtgccct | ggccaacagc | cagcaagaaa | acagggacct | cagtcctaca | gccaaaagga | 180 |
| agtgcattct | gctaacgaca | tgacagagcc | tggaagtggg | tttttgccag | agcctccaga | 240 |
| aagaaataca | caggggctga | caccctgatt | ccagccttgt | gctgtttgct | atctgtttcc | 300 |
| tatctgatac | tctttaccag | gcaggcttgc | tggttttctc | aacctacagc | tagtaaacaa | 360 |
| gtgttgtttc | atgctgctaa | gctagtggta | gtctattaca | gagcaatccc | aaaccatccc | 420 |
| caccccacaa | actggccaag | taagagatct | tcttngnact | taataaacat | accttaatat | 480 |
| atgcttatcc | tgattaacat | aaattccata | tatatatata | tatgaatgac | agcttntaaa | 540 |
| agaagtcnc  | nttctntntc | aaggn      |            |            |            | 565 |

<210> 10324

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10324

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| agcagccttt | cctgctccca | ctttaaagat | ccctgggtggg | ccatgcacct  | ccaagatggg  | 60  |
| caggggagct | acacccattg | ttacaaatag | gaggcatcag  | actctgtatt  | taaaaacaga  | 120 |
| actgtgcaat | gagaatgctt | taatcatcac | ccacacagac  | gagcggaagc  | tacagacaga  | 180 |
| gaaccactac | ggatgggtgc | tggaacagag | gtgagaatgg  | cccaaaaactc | tgccctccggg | 240 |
| aaaggtgcca | agtttacagg | acttatcgtg | gtgccctcac  | cagacccctc  | ctncttcttc  | 300 |
| tctcctcctc | ctcctcctcc | gtggccgctg | gcggctcctg  | catctcctct  | ggggaagcct  | 360 |
| gaggccgggt | cgggtaactt | ctgctgcctg | agacagtcac  | acgtgcttgg  | gaccttnac   | 420 |
| ctgangtctn | tggtgtctga | actggantgg | angtanctag  | gontgggaaa  | aaaa        | 474 |

<210> 10325

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10325

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ggagagacgg  | ggtctcgctc | tggtgcttag | gctggtcttg | agctcctgac | ctccagcaat | 60  |
| cctcctgcct  | tggtttccca | aagtgcctga | attacaggca | tgagccactg | tgctcagccc | 120 |
| ctttgaaaat  | attaattctg | acttcttata | attcccttct | atctactcat | gcaatacaat | 180 |
| tatatcttct  | aatatactta | aaaattagaa | aattataatc | agagtacaga | tggttctacc | 240 |
| agattaaagc  | tttaaattca | acgtttaata | cctaagcttt | taacctgtct | tcagcaattt | 300 |
| caaaaagcta  | atacaaatga | tcaacaactt | gtatatatat | tttactagaa | gtgtactcta | 360 |
| ccattttctag | aatacgtgtt | tagctttatg | acataatttc | aaggacgtat | tagaccccca | 420 |
| aatattttaa  | aaagcngaaa | ggacctatat | nggatgattn | aaaatctcat | tatcctactt | 480 |
| cttgaagagc  | taaaaaaaaa | ncaaccaaac | ncntaccccc | caagttntta | acatttatcc | 540 |
| acngt       |            |            |            |            |            | 545 |

<210> 10326

<211> 442

<212> DNA

<213> Homo sapiens

<400> 10326

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| caggtttcaa | aatgtacagc | cagggcatgt | gtcattttat  | tagggctgac | tctccgtgtc | 60  |
| cgcttcctgg | gaaagaaaat | ccctgtgaca | tgaaccgatg  | aagggacaga | agctatcaca | 120 |
| gatgctacag | ggctcagaga | ggggcggggg | caatctacac  | tacagaagta | aaagcaacgt | 180 |
| aaaatgtttc | tgggtttcct | ttcccttcac | tcaaaaaccac | tatttcctta | gttctatcaa | 240 |
| agtacgtaag | gggcataaaa | tagactcagg | aactcggggc  | taaatcatcc | aaaaatggag | 300 |
| ccaaggctct | aactagaaac | tgtctctgtc | gtccctgttg  | gcctcaaaac | cccgaggtaa | 360 |
| aaggctggtc | tcggntcctc | ccaggccccc | tggntcccan  | nacagtgcc  | cgtcctntgn | 420 |
| gttcatcatc | atcgnttttt | aa         |             |            |            | 442 |

<210> 10327

<211> 580

<212> DNA

<213> Homo sapiens

<400> 10327

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| gagacgggggt | tttgctctgt | cgcccaggct  | ggagtgcagt | ggcgcagtct | agctcactgc | 60  |
| aacctctgcc  | tccaggcttc | aagcgattct  | cctccctcag | cctcctgagt | agctgggact | 120 |
| acaggagcgc  | atcatcatgc | ctggctaatt  | tttgtatttt | cagtagagac | ggggtttcag | 180 |
| tatgttggcc  | aggctgacct | cgaactccgg  | acctcaagta | atccacccgc | tttggcctcc | 240 |
| caaagcaactg | ggattataag | catgagccac  | ctgcccagct | catgctgatt | taaagggaca | 300 |
| aggcagcgag  | aggcagaagc | agagaatcat  | cctcctcaag | ccccaggccc | aggccaatgg | 360 |
| cgctgccttg  | gggacttgcc | ggccggggacc | accacaaagg | gtcctgcgaa | ggctgcagcc | 420 |
| gcggctgcat  | tacctctggc | ctcgctgcca  | ggtccagcac | ggntgcgccc | gccgcatcat | 480 |
| gggaaccccc  | cggcgggccc | tggctgggtga | ngatgatccg | ttggncnant | tggcaaaatg | 540 |
| tggngaccac  | cttgacatgg | gacgtggggg  | nctgttgccn |            |            | 580 |

<210> 10328

<211> 432

<212> DNA

<213> Homo sapiens

<400> 10328

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gagacggggag | tcttactctg | tcgcccaggc | tggagtgcag | tggcgtgato | tcagctccct | 60  |
| gcaacctcca  | cctcccaggc | tcaagcgatt | ctcctgcctc | agcctcccga | ctagctggac | 120 |
| cacaggcgtg  | caccaccatg | cccggctaac | ctttgcactt | ctagtggaga | cgggggtttc | 180 |
| accacgctgg  | tcaggctggg | ctcgaactcc | tgacctcgtg | atctgcccac | ctcggcctct | 240 |
| cacgccacca  | tgcccgcccc | tgttcgttac | ttacaaaaac | ttctccctct | ctttgtgctt | 300 |
| actagcattt  | gaagaaatcc | ctgcttctta | ctgcctgccc | ctcaaaaaca | caaaaggggc | 360 |
| caggatatgg  | ggctcatgcc | tgtaatccca | acactttggg | gaggctnang | ngggnggato | 420 |
| acctgangnt  | gn         |            |            |            |            | 432 |

<210> 10329

<211> 543

<212> DNA

<213> Homo sapiens

09629469.072800

<400> 10329

|             |             |            |             |             |            |     |
|-------------|-------------|------------|-------------|-------------|------------|-----|
| gttgtcaata  | tgcatttatt  | tacttctttg | acaagtttat  | ttttgcgtat  | ctactatgta | 60  |
| cgatgcattg  | aagtccagng  | acaaacaaaa | cacagggact  | ntgccctcct  | ggagccgaca | 120 |
| tctgggtgagg | gagagacnca  | nactntanac | agatatattcc | aaatagcagg  | taagngctat | 180 |
| aaacaaaggg  | aaacagggtta | atgggataga | gtgacagggg  | gtgggatgag  | ttgctatttt | 240 |
| anatgaagng  | gtccaggagg  | gcttccctga | ggagngggca  | tctgggtctga | gggctagaga | 300 |
| atgtgaaagc  | agctgtcacc  | tganagctgg | agaaagaaca  | ttccaggagg  | agggagcatc | 360 |
| aagacccaaa  | gccctgaggc  | aaaaacaagc | ttgccatgtt  | ccagggaacag | tgaaaggaca | 420 |
| tccattgacc  | taatctcaaa  | agcttnttgn | ccaaagacaa  | gcaaagggga  | cccagttccc | 480 |
| ttgggggggtt | ccaaangctc  | tgtgcctgac | cccanaggca  | nangntcctt  | ttttcagggt | 540 |
| ggc         |             |            |             |             |            | 543 |

<210> 10330

<211> 586

<212> DNA

<213> Homo sapiens

<400> 10330

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gacagagtct  | cactctgttg | tcaggctgca | gtacagtggg | gogatctcgg | ctcatgcaac | 60  |
| ctccgcctcc  | tgggttcaaa | cagtatttaa | atcctgcctc | agcctcccga | gtagctggaa | 120 |
| ctacaggcat  | gcgccaccat | gccagctaa  | ttcttgcatt | tttagtagag | acagggtttc | 180 |
| accatgttgg  | ccaggatggg | ctctatctct | tgacctcatg | atccgcctgc | cttggcctcc | 240 |
| taaggtgctg  | ggattacagg | catgagccac | tgcgcctggc | gagaaccacg | actttttaaa | 300 |
| ggaaaccttt  | tctcatgtct | ttattattca | tttgttttga | aaatatcatc | aagattaagg | 360 |
| atcagctaag  | aaacagaata | atttacctct | tacatttcat | aattttatct | atttttgctt | 420 |
| atagggggaga | cttgagatta | aacgactccc | attggtacat | ttttacaaat | attttgggtt | 480 |
| caagaaaagc  | atgtccattt | tgangcttcc | atgnggnaat | tcttgagaag | cctaaggatc | 540 |
| tggcttcaac  | acaangnttc | tggggcataa | agggggcntt | tggcaa     |            | 586 |

<210> 10331

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10331

|             |            |            |             |             |             |     |
|-------------|------------|------------|-------------|-------------|-------------|-----|
| ggctttcttg  | gtcttttatt | tgtacccatg | tgtctgtcac  | accatgaatg  | tacctgggga  | 60  |
| aatcaactga  | ccaccctgaa | catttcacgc | agtcagggaa  | cagggtgagga | aagaaataaa  | 120 |
| taagtgattc  | taatgctgcc | taggtcacco | tcaaccccca  | tttactggca  | caattgggtg  | 180 |
| gagagaaggg  | aaggggtatg | attgtcctga | tggctcaggg  | ttgcaggagg  | ttcagagggg  | 240 |
| aaggaggaaa  | ggccaggctg | gaggctgggc | tgtttagcact | tccctnccac  | agttcaaacg  | 300 |
| gntcaactctg | ggctcaggtt | tgccatggct | tccttttggtc | caaacatagg  | ccctgtcctt  | 360 |
| agtcctgtgc  | cctgtttgac | ttttggccag | gaggcctttt  | tgtgctgctg  | ctgtttgcagg | 420 |
| gctagctgca  | tggcccatat | gctcantggc | cccatgtagg  | ccantgagcg  | gnacactcgc  | 480 |
| ttgttgcaat  | atgcctctng | gggctggaaa | ggccnaccan  | gcgctccaca  | cggaccggac  | 540 |
| aanc        |            |            |             |             |             | 544 |

<210> 10332

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10332

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| gaaggccaaa | tatcttttatt | gcctccctcc | catccccaat  | tccctgttcc | ccccaccaag  | 60  |
| tcctgctagg | aaccatcctt  | agattccagg | cccagggact  | ccctccgagt | accaggccgg  | 120 |
| tatgctactg | gccccgaggc  | aggcgagggt | aggaagaacc  | gggtgtccgg | ccttttagagc | 180 |
| gctcccagcg | aacacagtcc  | cgagtcctgc | gggggtggggg | cccctgccag | ctgccaggcc  | 240 |
| ccttctcttg | tggaggacct  | tcaactcctt | ggctatgggg  | ttctggcttt | aggtccatgg  | 300 |
| gctccttgag | gggcccctca  | ggaggtggca | gttcttgggt  | gtcacgggta | cctttagggg  | 360 |
| cgtggcactc | ccctcccttt  | gggtgcctcc | gttcgggctg  | tcgccaggga | cctcgactgg  | 420 |
| gcttgggggg | atctagcata  | gctttctggg | tttcgcccac  | cctttgctga | tttgacctgg  | 480 |
| tccctggaat | cttctnaata  | tgtgctggtc | gcacagcnna  | agaagtggca | aatggattgg  | 540 |
| ccgcttg    |             |            |             |            |             | 547 |

<210> 10333

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10333

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| gagtgttttc | agtattttat | taacaaatga  | gctggcaaga  | ggacaagtga | tctagtagta | 60  |
| tcacccccac | cctcatggag | cagccaccac  | aagcccacca  | tgggtggggg | tgtccaacat | 120 |
| gctctgctgg | cccagttccc | agccgatccc  | ctgagtcttg  | gcgcccgttt | agtcaccctt | 180 |
| cagctgcttg | ggaggcagga | agagacttcc  | cctcttcacg  | aggtaaggga | gacaaaagca | 240 |
| gccatttgga | tgccagggcc | acaggggcaa  | gccatgccct  | atttcttttg | agggacagaa | 300 |
| tcacttcttc | ccaaggccag | acactgtagc  | ccatggtaact | cagccttcta | gaggagggta | 360 |
| gcctaacaga | ggagaagccc | tgagtgggaag | cagcattttg  | aaggcatcgg | cattcttaga | 420 |
| ccagcttaaa | actgagggca | ttctctatct  | ttggcagcag  | acagtgagac | ttcaggatta | 480 |
| aaattaaaag | cccngngngc | atcctttctt  | gcattacttt  | ccacaaaacc | ttggaggagt | 540 |
| caaatccc   |            |             |             |            |            | 548 |

<210> 10334

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10334

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| ctcctaaaat | tttttattac | tttcagaagc | aatactgttg  | canggtatca  | acaaccacac | 60  |
| tatgtaccca | aataaaatga | atgtcagaaa | taaaaatact  | gtcacaaaaga | agcaccctt  | 120 |
| attggaagat | gtattgaaga | agtcttatta | cactgaaatt  | ttatggcaca  | gatcataaaa | 180 |
| tcagagtctc | ttcacacata | ataacaattc | atccattttg  | aaatgagtaa  | cttctccttt | 240 |
| gtagtgttgc | tagtataaaa | aaaggtacaa | gttcaaaaata | tgctggcaac  | atacaaaagt | 300 |
| ggccaatagt | tttggctctt | gagagtacac | cctgcagttt  | aacaaagact  | ggctttgaat | 360 |
| cttccactca | aaagcacact | tctcttccaa | aaagatgact  | gcccactga   | tgccatccca | 420 |
| gagagcagat | atcccaacca | ccaacttgaa | atggctgaac  | aaagaaaact  | acccaattac | 480 |
| tttaaagatg | gggaagcaaa | atcaatggcn | anggttttaa  | aatcntagga  | attttaaaat | 540 |
| caat       |            |            |             |             |            | 544 |

**<400> 10335**

**<210> 10336**

**<400> 10336**

**<210> 10337**

**<400> 10337**

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| ataacgaaag | gagattttatt | tggttttacgg | ttctgcagac | tgnacaggaa | gcacagtgcc | 60  |
| agcgtctgct | tntgggtgagg | gcttttaggtt | aattccattt | atggcagaag | gagaagggga | 120 |
| gctggcatgt | gcagagacca  | aatgacaaga  | aagagagagg | gaagggagct | tacaggtttt | 180 |
| tgtttttgaa | agcaaaaaca  | aaaaacaaac  | aaacaaaaac | ccaaccaaac | aatagtactc | 240 |
| cttccactnt | atgctaacgg  | aagacttntn  | acaccagcca | gttaaacaat | gaaattntta | 300 |
| aacacncagc | ctgctggggc  | tgcattgcaga | gctaaaatgc | aggtgtgctg | acttcttgga | 360 |
| gctggagcag | aggaaaacat  | naaaaagcat  | atctggaatc | tatcacagct | ttctttctta | 420 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agcaaataaa | aatgcaaatt | aggtttcata | acccccattt | caatttatca | aactttttct | 480 |
| ggaagaaatt | tcatttaatt | atggattncc | ttaccaggga | ataaaacntt | tttacaaacc | 540 |
| cttttnangg | nttncg     |            |            |            |            | 556 |

<210> 10338  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| <400> 10338 |             |             |            |            |            |     |
| gggaaggaca  | tttttatttt  | ccctaattctt | caggcaacct | caccaagctg | gaggtcacat | 60  |
| gtagctgagt  | gtgaaaccaa  | gaaaaatacg  | aagcttcaaa | agtactgtgc | gttgtatttt | 120 |
| ttcattctct  | ggcaggctgg  | gagtccaagg  | tcagtctagg | caggagggct | gcttggccta | 180 |
| agcagtcaca  | caattttcac  | cgtcttgagc  | atatctgaca | agacatacgt | gtcatcccaa | 240 |
| cccctcccag  | gcttccctcag | ggtccgctcc  | aaagcctggg | ctgtttctag | gagctctggt | 300 |
| gtggcaagtt  | tttgctcagg  | gtgcagctga  | cagaacagga | tctcattcac | ttcaccctca | 360 |
| attcgccgga  | catataggag  | ggggaaacact | gccttgagcc | cagccagcac | tgagtctttt | 420 |
| agccccaagt  | ctcggcacac  | aagggttgaga | ataaaacacc | ttcaggagtc | aagatctttt | 480 |
| aacctttgta  | gaaaaaaatg  | nttcccaaat  | gctggggccg | acactaattc | cagngttggg | 540 |
| ccctactggc  | aacat       |             |            |            |            | 555 |

<210> 10339  
 <211> 487  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| <400> 10339 |            |            |             |             |            |     |
| ggctgctgct  | tccgtttctt | tattacctga | gcccattccg  | accctnaaga  | caactggagc | 60  |
| ccaccctgcc  | ctggaaggct | canctcccct | gcttgaggac  | nccgcacacc  | tggtccagga | 120 |
| cgtgacacag  | gctntggtcc | ttgggcgtcc | tgctggccaa  | ggagatctta  | agcttgtcga | 180 |
| ggtaggtgtg  | ctcctggctc | cagggttcc  | ggagcctnac  | gaggtcaggg  | gaacccttgt | 240 |
| anaactccac  | cagcagcatc | atntcgtgaa | ggatgtcatt  | ggtcagggaag | ctgtcctgga | 300 |
| cgtaggccat  | ntncacatnc | atggggatgc | catagtcaact | gggcctttgc  | tcgggaggag | 360 |
| gcatnaccba  | gaaaggcgag | atcttggact | cggggcctgg  | gttgccaaaa  | tagtaaaggg | 420 |
| gagcananca  | gggccaaggc | anggcttggg | aaccatttgn  | tgnacccttg  | aaancncaac | 480 |
| ttggtaa     |            |            |             |             |            | 487 |

<210> 10340  
 <211> 560  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |             |             |            |     |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 10340 |            |             |             |             |            |     |
| acagagttaa  | caaataagca | gttttatttt  | caaaagtaca  | tagtaagtcc  | agactgggct | 60  |
| attgccaaaag | aactaatctt | tagtctactt  | caacatgtta  | catgggtattc | ctgactctac | 120 |
| agactatcag  | catctgtgga | ggttagctcc  | taaagggtccc | aaagaacagg  | aaacatgcag | 180 |
| gaataaagga  | ctcctcatga | agagcagggtg | ggagcgagtg  | ggcaggcctg  | tatcttctca | 240 |
| gcaaagtaag  | gattgagtat | agagagctgt  | ttgtcttaac  | tgggcttccc  | tgaagaatct | 300 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagccaaact | ggaagaaacc | agcctcattt | ccagtgttga | gatgttagct | gtacagtggc | 360 |
| tgtacaactg | cagagtttat | ttatagaatt | agaaataatt | ttttaaaatt | ttaaaagggt | 420 |
| ttgtgtaatc | attaaccaga | agatgatatt | cacaaattct | ggtaaaaaat | ttgactcttc | 480 |
| actatcacca | tatcaacnng | gaaaccaggg | ccatgccanc | cagggaggac | tgnccttanc | 540 |
| gccattangg | aagttgnccc |            |            |            |            | 560 |

<210> 10341  
 <211> 558  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| catgtacaaa  | gccaatcatt | tatttagcac  | taaaatcaaa | ttataaaaac | aacaattcca | 60  |
| tcttaaaaaca | ggcattttta | aagcattttct | gtggttctaa | gtttgcatca | agacagccta | 120 |
| agtttgcatc  | tgacaaatct | ggatacccaa  | atccctctat | aatttccaaa | gacaaagaca | 180 |
| atttttgcta  | gttgtagagt | gtcaggggga  | agcagtgatg | ccctgcaaac | agtctaattg | 240 |
| gccaggggaa  | ccctgtttct | ttctcaacct  | gaggttgcat | ccttgatctc | caggaaaaga | 300 |
| gattagtgtc  | tgcttaacca | ggttcctagt  | aaatggtcag | ggatcttcta | tgcaataatg | 360 |
| ttgcaaaaagt | tactgaagag | gaaaaaaaaag | cacaacggag | gcttcttgcc | catttacact | 420 |
| tgcaatgtta  | gattttgaaa | acagggccct  | tcatagtcag | cacccaagtc | ctggactttc | 480 |
| agatgtaatg  | cangctggnt | aacaagccct  | taatactaca | ttggaatttc | naacgacttc | 540 |
| ctggacagtt  | ttttaaan   |             |            |            |            | 558 |

<210> 10342  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| aaatacaaaag | aaaattttat | ttgtatatca  | aagactctaa | gaaatgatga | cataaggtta | 60  |
| acagagtiga  | tgcaagaca  | aataggtttg  | aagttataga | tgataaatca | ctttgtctta | 120 |
| ctgaaccttc  | ccttgattac | gttagagagc  | atccctggta | tgctcccagt | tgaatcttaa | 180 |
| gcatgatgtg  | tgccgggtg  | atataatcgt  | aattcctttc | tgtaaatcct | cgttctctct | 240 |
| cttttttttc  | tttttcttct | ttttctctgg  | actagcaatt | gctgtgctgg | tacatggttc | 300 |
| ttcctcagaa  | agtggttctt | ccttaattgtg | tttcttttta | ccccctttct | totttctctt | 360 |
| cacagatgtt  | totttctctt | ctgccacttt  | ttcttcttcc | totttctcaa | ctttaacttt | 420 |
| aatottggct  | ttttnnngct | ttcttttcaa  | gtaatttcat | ccctctttat | ctaccnggtn | 480 |
| ctaattttgc  | gtttttttaa | acaggttggg  | angtgtngga | gtcaccca   |            | 528 |

<210> 10343  
 <211> 555  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aaatacaaat | gttttattac | gcaaaccaca | tgtaggtccc | aggctcaggg | gcttacccta | 60  |
| cagcccccac | tggtccctgg | ctccaagcct | gctccttgcc | cttgcccacc | ctggaaagcc | 120 |
| aggatctcct | atggagtgtg | taggtgtcca | cgagtgtacc | ggtgtgcggg | cctcctgggc | 180 |

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| tgcaggcact | caggcatggt | ggcagcattg | agggaaagac  | aggtgttggg  | gagcggggtc  | 240 |
| cccacctgcc | caggctcagg | agtcacaggg | gtctgcacag  | tcctttctgc  | tgttggaacac | 300 |
| gtgatagatg | ctggtcgggg | ggaacatagc | aacagcgccg  | agcagagagc  | ccacctggat  | 360 |
| ggccacgccg | gctgccagca | atgccggccg | gccccgccat  | gcagcaggga  | gctggctgca  | 420 |
| ccttacgtag | gagaacacgc | caagacacag | caccacacgac | agcaccacacg | aaggaccacc  | 480 |
| cccggcgang | ggcccaccaa | gggccggcaa | gggcttaagg  | aatgcancgn  | catnanggaa  | 540 |
| nccccacaan | aaaac      |            |             |             |             | 555 |

<210> 10344

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10344

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gagacagagt | cttgctctgt | cgcccaggct  | ggaatgcagt | ggcacgatct | tggctcactg | 60  |
| taacctctgc | ctctcagggt | taagtgattc  | tcatgcctca | gcctcccaag | tagctgggat | 120 |
| tacaggcacc | tgccaccacg | cctggctaata | ttttgtatit | ttagtagaga | tgaggtttca | 180 |
| ccatgttggc | caggctgttc | tcaaactcct  | cacctcaggt | gatccgcctg | cctcgacctc | 240 |
| ccaaagtctg | ggattacagg | cgtgagccat  | cgtgcctggc | ccagcctttt | cttaaatact | 300 |
| tccagagaca | gggagctcag | tgcttctaga  | gtccatctga | ccagtgatcc | gcatttggac | 360 |
| cacattagaa | aaagtctgnc | ttctttttcc  | tagggaaatt | tgccnccga  | acaagaaccc | 420 |
| gctggtccaa | gctttgaatg | cnagtggctt  | gcgggcagcg | cactggatta | tctttcccg  | 480 |
| atgacttntg | aaacacttaa | acgccccaaac | cctggatctt | cctctgntag | gotgccattt | 540 |
| aaagccagtt | ttgagcctg  |             |            |            |            | 560 |

<210> 10345

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10345

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| gaagcaataa  | aagcacagat | ttattgaagc | aaaagtatat | tccacagagt  | gggagcaggc  | 60  |
| taaagcaagc  | tgctcaagag | ccccagttgc | aaaatctggg | gtttaagtac  | ccttttagggg | 120 |
| tttctattg   | gttacacct  | atgcgccacc | aatcgagggc | cgaagtgaag  | gctcccagtc  | 180 |
| tccagactct  | tattctccta | gctcaaagaa | atccactgat | ttcctctgta  | gcattctcag  | 240 |
| gttccatctt  | gacaacttcc | tctaaatccc | caggggaaga | gttgtttaga  | gactcctgga  | 300 |
| tgccctgagg  | gagcggctcc | agagcttgct | tccctcctct | gttttcacaa  | cggtccagcg  | 360 |
| ataggcaactg | ttctctgaca | atccttcttg | gcactgttta | tgcactgggtg | gaggccctgg  | 420 |
| gctatgttcc  | actttgggga | aaacagtacc | aganagagga | gatagtccct  | gggctctaaa  | 480 |
| ttgggttcta  | ggccctgaaa | ggcatttncc | catnagcccc | aggacaagca  | tgnnccatt   | 540 |
| catggggggc  | cttatt     |            |            |             |             | 556 |

<210> 10346

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10346





|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| caagtttttag | agaactaaat | ttgcatttgt  | taaaatcaaa | aagtaggaaa | gatgttcttt | 60  |
| acaaaataatt | ttgatcaagt | atgtgttcaa  | agaaagcagg | ataaaaaggc | tttttctcta | 120 |
| acattctgtg  | ttgtactgta | ttgtttgttca | ataggaatta | gcttctgtca | tttgctaaaa | 180 |
| gaatgagtag  | tggggaacag | gatatgttgg  | aaatttcata | acgggtaaca | gaaccattct | 240 |
| cttgggtaaa  | ccataggcag | gggcagctgt  | gctgtaacca | tatgggtgtc | catagcctgg | 300 |
| agctatgtag  | ccaggagcag | ctgtcgcccc  | aacaaaagct | ccccttggta | gaagtccctc | 360 |
| ttcctctggc  | ccgaacagct | tgggactgct  | gcagacacag | ctggattcac | aacgcccttt | 420 |
| gcctganggg  | ataatcttcc | ttttccta    | aatgtgcccc | attngggnc  | anaaaacagg | 480 |
| ttntccaagg  | agcttnaagc | ttggacttgg  | cctttgccct | ttttttaatt | ggacctggnn | 540 |
| cctttg      |            |             |            |            |            | 546 |

<210> 10350

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10350

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ctgagacaga | gtctcactct | gttggcccagg | ctggagtgca | gnggcataat | ttcggctcac | 60  |
| tgcaacctcc | acctcccga  | ttcaagcgat  | tctcgtgcct | caggccccc  | agtagctggg | 120 |
| actataggca | tgccacatca | tgcccagcta  | atttttgtat | tttagtagag | acagggtttc | 180 |
| accatattgg | ccaggatgg  | ctcgatcttt  | tgacctatga | tccacctgcc | tcggcctccc | 240 |
| aaagnctgg  | gattacaggc | gtgagccacc  | atgcccggcc | ccaggatatt | cttctgtgca | 300 |
| aagtttagga | aactccatgc | acttntcaaa  | acatcagatg | ctggggactg | gcttatacaa | 360 |
| gaaatatgga | gaacacatat | aatagatttt  | agccatggct | aaattttcag | aattttaccc | 420 |
| gagaccgata | agtggnga   | aactccctga  | aagttggatt | taaagtcana | aatctnttt  | 480 |
| cggggggggg | ccgttctant | attttgaana  | actntttcaa | atggctggca | aaaggggcaa | 540 |
| tnccccctt  | c          |             |            |            |            | 551 |

<210> 10351

<211> 506

<212> DNA

<213> Homo sapiens

<400> 10351

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| cattgaaaaat | tttacttgaa | aaaataaaaat | tccagatact  | caggtgagac | acaaaccac  | 60  |
| tgttcctgct  | ttgagacctg | tgaattcttg  | tgggacagtt  | ccactgacag | cttgcgttcc | 120 |
| cgaggtagca  | gtcctcagtg | acctcgggaa  | cccccaaccac | ttaggtccca | aagccacaag | 180 |
| ggtgcccttt  | gtcttgctgg | gaagctggct  | gagggcctgc  | cagggctgga | ggaccagctc | 240 |
| tcccgcacag  | ggttcagggc | ctctcccaga  | aaaaagaggt  | tttgaagtga | aaaggcaacg | 300 |
| agggggccaga | gggctcccca | ggatgggtct  | tttggaggta  | agattttgat | gcccacaacg | 360 |
| catgcaaggc  | taagaccccc | aacttagcca  | acgaagccca  | tggnotcana | aaggcttgaa | 420 |
| ctttgntnag  | gccngngncc | agatgcatct  | ggacgggtnt  | ccaataaaaa | gccccagggt | 480 |
| ttgctacctg  | gtacctgctg | ggctnt      |             |            |            | 506 |

<210> 10352

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10352

|             |            |             |             |             |             |     |
|-------------|------------|-------------|-------------|-------------|-------------|-----|
| ggatatggtg  | ttcccgattt | atttgttttc  | aggaaacaga  | caattgcatt  | gtcatacatg  | 60  |
| acttagaact  | gcttacttaa | atgcacatta  | ttagattaga  | ttaagtttct  | cttacaaaaa  | 120 |
| cacaaccatg  | tcatttaagg | cgaaaaatct  | cagcttctag  | ggagacaagt  | taatatttat  | 180 |
| gatatctcct  | ctatctgatt | tagtgaaatg  | atccattaat  | atagtttagcc | aggtttcatc  | 240 |
| atccttacag  | ttttgctttg | caaattggcat | gagaattggt  | caatttgtgc  | ctgatttcct  | 300 |
| cctctctagt  | agacttattt | tacttgcaaa  | ttaagaactt  | cagaatcact  | gaatcaatgg  | 360 |
| gaggtgagaa  | aggcacctta | gaacagatca  | ggacttaaaa  | actcaataaa  | ggtatttttaa | 420 |
| acaaaacttg  | caatctacaa | atattaatta  | agtgacaaaa  | tgcaacatgt  | agatcagact  | 480 |
| tgcaaaaattt | tttaggtnac | ctatccangg  | gatatattgca | ntaagntag   | cttggacaac  | 540 |
| ctcntggt    |            |             |             |             |             | 548 |

<210> 10353

<211> 366

<212> DNA

<213> Homo sapiens

<400> 10353

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| gagacagttt | cgctcttggt | gctcaggctg | gagcacacag | gcacgatctc  | cactcactgc  | 60  |
| aacctccgcc | tcccggttc  | aaacgattct | gctgcctcag | cctcccaggt  | agctggggtc  | 120 |
| acaggcgccc | gccaccacgc | ctggccaatt | ttttttgtag | tttttagtana | gacaagggtt  | 180 |
| caccatgttg | gccangccgg | tctngaactc | ccgatctcag | gcaatccgnc  | tgccctcagcc | 240 |
| tcccaaagtg | ccgggattac | aggcgtgagc | caccacgccc | ggctttattn  | ttttnttttt  | 300 |
| gagacagagn | ctngntctgt | cacccanact | anagtgcaat | ggtgcgatct  | cagctcactg  | 360 |
| caacct     |            |            |            |             |             | 366 |

<210> 10354

<211> 504

<212> DNA

<213> Homo sapiens

<400> 10354

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctcaaaaaca | atgtttattt | taacacataa | aatgtaccat | ctagcaccaa | tgccctgtaa | 60  |
| taccagaatt | ccatccggtt | actactcttt | ggaacaagta | tgattaaagt | ccttgacaga | 120 |
| ttattgtata | tgagcgaatg | gcttcataac | ataaaacaga | gagacacaga | acagaaattc | 180 |
| atttggtata | tacatataga | actacatttg | tagttattca | aaaacctttc | actgcttcat | 240 |
| gtaaacataa | ccagtatttt | taagccagat | tttcctggaa | catatacata | aagtgcataa | 300 |
| gccacgtaag | tgcataagcc | tgaaactggt | ctttctattc | tcactccatg | ctcaaatgaa | 360 |
| aaatctgtaa | agatatcttt | tggttccttc | aatcttctga | ttggcttcct | tagcaactca | 420 |
| ttacagnncc | aatttacctg | attaaaatcc | catngacatg | gtatggtngg | aggaaaaaga | 480 |
| aaaccttttg | ccaatttnan | nttt       |            |            |            | 504 |

<210> 10355

<211> 545

<212> DNA

<213> Homo sapiens

00629469.072800

<400> 10355

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaatgaaaac | catgaattta | atgngacatt | gggggagcct | catccttccc | tttttaccac | 60  |
| ccacccatcc | agcctgttgn | gagttgggtg | agggctgccc | ccagtctccg | tcctgcggnt | 120 |
| ntgggtgcca | tcctgttcct | ttgagctcag | tcagcctcct | gggctcgtct | ntntgnga   | 180 |
| ctccttcttg | cgtattcata | tagngcttgc | ttgcgctcct | gcaggctntc | ctgccggggc | 240 |
| caggaanact | tggcaaattg | tagggctgtt | ggctgagggg | tcaccggggc | anagctggga | 300 |
| aactgaggng | atcacaatgt | canagggcct | gcggagtcac | catcattaaa | cacgcacga  | 360 |
| atgccttgga | ggcanaggct | gtgggttagg | actgagttcc | cttgngatg  | tcttcaggca | 420 |
| tgaagctac  | ggccccctca | acagattaat | gatagcaagt | ctacacaagc | cagtcttggc | 480 |
| cagggtctnt | tgggtgacct | aanggccatg | ggggnaaant | tncttgactt | tttgagccna | 540 |
| angtg      |            |            |            |            |            | 545 |

<210> 10356

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10356

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| accatggaaa | aacatctgga | tttcatttgg  | tagtttaaag | gtttttgaaa | atgttgatat  | 60  |
| acacaagctg | tacttggagc | tggataacag  | acataggagc | tggatgacag | acatactttt  | 120 |
| attcttttat | ttttgagatg | gagtttcaact | gtcaccacag | ctggagtgc  | atggagcgat  | 180 |
| cttggctcac | tgcaatcctg | cttgggtgac  | agagcgagac | tttgtctcaa | aaaaaattct  | 240 |
| tttaattaaa | aaaaaaaaaa | agctttacta  | cttcctgttg | agttcataaa | aagttcttcc  | 300 |
| ctttgtttta | gtcatccaga | gtaaagtcac  | agggtcctaa | gtotttccgg | aagcggcgag  | 360 |
| ccagggtctc | ctcgcttcct | tgctgatctg  | acactggctn | cagtcagact | tatcagggaac | 420 |
| attaaggatg | gcttcaactg | ccaggacctc  | ccttccaact | gcaanggaaa | atccttttaa  | 480 |
| atctggggaa | aagctttctc | cggggcaagt  | cacnttaaaa | aatgccgntc | cngctggcaa  | 540 |
| tcggttgatg | naaangg    |             |            |            |             | 557 |

<210> 10357

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10357

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagatggagt | ctcactctgt | tgcccaggct | ggagtgcaat | ggcatgatct | gggctcactg | 60  |
| caagctccgc | ctcccgggtt | cacgccattc | tcctgcctna | gcctcctgag | cagctgggac | 120 |
| tacaggtgcc | caccaccacg | cccggcta   | tttttgtatt | tttagtaaaa | atggggcttn | 180 |
| accatattag | ccaggatggt | ctngatctcc | tgacctcgtg | atctgcccgc | ctcggcctnc | 240 |
| caaagtgtct | ggattacagg | catgaaccac | cgcgcccagc | atgcttggtg | atgnttagta | 300 |
| aacagcacag | tcaggttacc | aggtagcttt | aaggagagag | tccactccaa | aaaccgggtg | 360 |
| tggcaggatc | cccgtcctgc | atttccta   | ccactcgtgg | tctaccccca | gccttttaag | 420 |
| tatggccttc | tgaaaacctg | accctgggaa | gctgggaacc | tnaatttggg | caaataccat | 480 |
| ggaatnacct | gatgcnana  | atttaactta | tccaaagggg | aacttatggt | taaagccctn | 540 |

<210> 10358

<211> 416

<212> DNA

09629459.072800

<213> Homo sapiens

<400> 10358

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagaaaacca | tttttattat | cattaccacc | cagcttatct | gtgctggatt | atgtaccaa  | 60  |
| tggccagatc | ttctaaagaa | catctacata | acatttcttt | catgtttcaa | gagatgaaaa | 120 |
| taactgtaca | aggttaagta | caaaagtaca | caagacagcg | gacacgaaaa | aatccatgta | 180 |
| tgagatttta | tccccacctg | cagcttttat | atatttgaaa | agtagaattc | atgaactaaa | 240 |
| aaatattatc | cttctatagt | cctgtcaagt | ttaatggaag | tgggtttaac | ctgattacaa | 300 |
| cactaaccac | agtatcactg | atctgatatt | tacaaaaatt | tggatttttc | aataaattaa | 360 |
| agtcaatgca | acacccatgc | aagctagagt | gctancgtgt | tngnngaaca | nggnncn    | 416 |

<210> 10359

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10359

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cttgtttcaa  | gtccaattta | tttcacacaa | cacacaggct | gctgagggaa | tccacctgca | 60  |
| ctgcaactcag | ttgaacttcc | ggcccagtg  | cgcgtcagag | actaaaccat | gggagaaagt | 120 |
| tcacaccctg  | gcctgggcca | cccaccttca | gctctctct  | gtgcgtcagg | acgcacgctg | 180 |
| gccccaaag   | cttcactcaa | cacggctggg | tcctgggagg | acgtgggcac | agcacttgcc | 240 |
| aggcgccct   | ggcaggggct | cttctcagtc | ctccgcacgc | ctctctcttc | cgtgtcttc  | 300 |
| gtcgtcgacc  | ccacctcgg  | cgcctcaac  | ctcctcactg | tcctcttccg | agtccgtctc | 360 |
| ctccagccac  | tccagagttt | ctgggtccat | ctccaccaag | gccttccacg | cctcatcctg | 420 |
| tgcangtcca  | ggcagtgcan | gtcgttaagg | tganctggcg | gcggcgggct | tnaaaatgcc | 480 |
| ccatagaacta | gagcacccat | tgcttaaaag | cagcatggcn | tggacctgga | cacggcccag | 540 |
| tgcnngnttc  | cggcttntna | aggt       |            |            |            | 564 |

<210> 10360

<211> 481

<212> DNA

<213> Homo sapiens

<400> 10360

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ctaatttccc  | tttaatttgt | agatttaacc | acagaactgt | ctcgattttt | ataaaaattg | 60  |
| atoccaaagat | ccaccttctg | ccgtggctgc | cacagtccag | gctgagcttt | tcctcctgag | 120 |
| ccacacacgt  | gtgttcccg  | ccagcccaaa | ggggagaggt | gtggggcggt | ggggcgggga | 180 |
| ggcgccctgt  | gctgtggcac | tggacacggt | gctcatctgc | aggatagcca | cgaaggcaaa | 240 |
| cggcacagac  | gaagacaaca | caagacacac | gagcctggtc | ttccatcctc | aggactaaaa | 300 |
| ctgcgctgag  | agcaattcac | ataatctctg | agaaacggct | tccttacttg | tgcgcagcgt | 360 |
| gagccgggtac | atcttgggct | tgcaggttcg | gntccaacgc | agcangcatn | caatctgggt | 420 |
| gggttttcgn  | gtggatgaat | tccagttcca | cgaantcca  | ngattaggac | aacttnttca | 480 |
| a           |            |            |            |            |            | 481 |

<210> 10361

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10361

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaaggagtta | attacatgta | ttgattaatg | gatagggtaa | acagacgaaa | atcaataaac | 60  |
| ctgagccagg | ctgccccaga | gtgctcccat | gcctgggctc | tgtctgctaa | gagggtcaga | 120 |
| ggcagtcctt | cctggtcagt | gccaggatga | agccagtcct | gggccagggt | gctcaggcct | 180 |
| ccagatggat | tgccctgggt | ggtgacatca | gcatgggcta | cagatcagtc | ctaggatccc | 240 |
| gctcatcact | cgctatcggc | ctcggcctca | ctgcctgtgc | ctgcccagcc | atatgggtgc | 300 |
| aatggcctgc | ctgagaggag | aggatactgg | ggagggggag | aaggcctggc | acagtactgg | 360 |
| ggaagatgga | agcagcaaac | aaggctgtga | acacagccag | gatcaagcca | gtgganccag | 420 |
| tgcaaacaca | catgctcana | tganggtggt | ctcctggaac | ttttttccaa | gtaaaaccgg | 480 |
| taaagaggaa | gggcttaagt | cnanggctgg | aacctgcctt | taanaccatt | tttgttacan | 540 |
| ttgnccaatg | ccnggggctn |            |            |            |            | 560 |

<210> 10362

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10362

|            |             |             |             |            |            |     |
|------------|-------------|-------------|-------------|------------|------------|-----|
| ccattaagga | gaacatgaat  | ttccttggag  | gtgaggctcc  | aggtagggac | agggcctggg | 60  |
| ctgctgaagg | ccacaggaag  | caaattggccc | ccagtccacc  | tttctgtccc | tgccatgaag | 120 |
| ggccattaca | ctgggggtggg | gaggctcctca | ggaggggtgtc | acacatagcc | ttaggcaata | 180 |
| gcaagtcttt | cctattcagc  | tctgtccagc  | ctccaattga  | ggagggataa | tgggggtgag | 240 |
| acagggtttg | gggtgaagtg  | gccaccaaac  | cgggcaaaaag | tgagcagctc | catcttgtct | 300 |
| gaagttaaca | tcatcccctc  | aggtataaag  | cctctcctna  | catcgacttt | ggtaaaccag | 360 |
| tcagtgcag  | gccttggcca  | agctganact  | tggcaaaaac  | ctgaaccaag | tgccnccgg  | 420 |
| aaagccataa | tcctancctt  | tgnccttcca  | atgcttaaaa  | gtcacaatgt | tcccatggg  | 480 |
| catccctttt | cctgaatcng  | ctnntngtgt  | gaaaccnggc  | cagcccgggg | ccta       | 534 |

<210> 10363

<211> 454

<212> DNA

<213> Homo sapiens

<400> 10363

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| ccagtgaag  | acaatatata | tatatattgga | ggtagaaata | attacaaaaa | tactgacatt  | 60  |
| tctaaagcat | tagcatattt | gttacaaaca  | atcaccaact | aatccccatt | cagaaaactg  | 120 |
| ctttgtaaaa | tgattattca | acatcttcag  | aactacatat | ttgtggcttc | ttttttgaaa  | 180 |
| tttcacgtgt | gagtatttgg | agaattcagt  | tagtggcaaa | aagttgtcca | tactatgaga  | 240 |
| aatgtaatat | ggaaattata | aaaagttata  | aatgttcata | aaccccatgg | tcatacataat | 300 |
| gtaaatgtcc | ttgagtgcac | caagttgata  | tttctcctac | aattgagagt | tcacagttct  | 360 |
| tatttcacag | goccatgat  | gttttttagta | atgtggctat | atctgctggc | atactccctt  | 420 |
| natnaccttc | atctactgna | gncatatccn  | gnnc       |            |             | 454 |

<210> 10364

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10364

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cttttttttt | tttcgatgag | caaactgaac  | tttaatttgc | ttacctgaaa | ggcttgctct | 60  |
| tcattatttg | cataggccac | agctattttac | acagaatcat | tgtacaggat | ttacagcaag | 120 |
| atgctacaca | tagcatcatt | ctggataagc  | gacaaaggag | taagaacaga | ctggggaata | 180 |
| aagctctgaa | atcaaagtgt | aagcagaaat  | ctgaaggtag | gtgtacaagg | aaggataagg | 240 |
| gccaaatgat | gagcgagggt | ggtgaggtag  | acataaggga | ggaagaggaa | acatccaaca | 300 |
| acttgtggtg | cagagatata | agggaagagt  | ccactggcac | atagtcttaa | aaattatgtt | 360 |
| tggagtttga | aggaggaaaa | atctgccata  | agccacctct | gtgagaaaaa | agaaggcagt | 420 |
| tagaacctta | caggccaaac | cttatacctc  | cctatcaaaa | gtaatctgct | gattaatcct | 480 |
| ggataggana | atgagaaggt | tgaaaaagaa  | agagaggaga | tgcttgancc | cgnaccttaa | 540 |
| ccggagttag | agaccaagg  | aaatttnttc  | aggaaaggnc | ccaggaa    |            | 587 |

<210> 10365

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10365

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| aaccttagtt  | taggtaaatt | taatgactgt | aaaagctggt  | cacatagcag  | ctttaagag  | 60  |
| acacgttttc  | cactgacata | aagttgcttc | gccccttgca  | gottatctcc  | accttcatga | 120 |
| cctgtttcct  | cagtggcagg | caatgtctcc | ccttcctggt  | ggggaggatt  | gccaagtca  | 180 |
| gctctgaggc  | catcctctca | ggtcagcaat | atgcagaaga  | gtccctcaga  | gtggtcctgc | 240 |
| agagaacatg  | tcccttaagt | gtctgagaac | tggctgagggt | gatcttcacc  | agcacatagt | 300 |
| ccccaggctg  | ggctctgacc | ctgagcccag | ggttatttgac | atcctccatc  | tctgcatcag | 360 |
| ggaagatcac  | cttaaggttt | ccatcattcc | tgccacacag  | gtcaagtggc  | agaaccgttt | 420 |
| actgagccct  | tccactagca | ccacttgggt | acaagcccac  | aagaagggtct | gattgggctt | 480 |
| ttgggtgcttc | ttctcggaag | atagtgatga | agttccttca  | aacgcttaaa  | ttttancctt | 540 |
| tccgggaaaa  | ttattcttta | gncctttgan | atgncccngn  | ntttttg     |            | 587 |

<210> 10366

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10366

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| gtcgtgaga   | atattttattc | aaaaacaggg  | attgaaaaaa | ctgtacagag | tgtctgctgc | 60  |
| tgagaactgg  | gcccctgccc  | catgccactc  | ccccagctac | ctggcagtg  | cccctctttg | 120 |
| gggtgcccc   | tgacaagccc  | agccagttca  | ttccagtcaa | aagggtatca | gtggaagcag | 180 |
| caagaaatct  | gcagggtggtg | gggagagaag  | cctggcccca | gctacccaac | gggccctcct | 240 |
| ccctgactcc  | cacaaggatg  | cagtaggcca  | ggaagcccta | agggatgggg | agtgcgtgag | 300 |
| tgacacccgc  | catggtgggg  | gcactaggga  | gtctcctggc | tgctccctgt | atccaagcac | 360 |
| agagctgagg  | aggtagggcc  | ccctgcccctg | gggcttgccg | aacttnagac | ccctgggcca | 420 |
| naactgnccc  | actctgagag  | aaagactcca  | taaatggagc | caggtanggg | gtgcacatg  | 480 |
| cgntntggccn | taccgcgttt  | ggacccangt  | ggagnttctt | ggccggtagg | tgcaaagnaa | 540 |
| nccctgt     |             |             |            |            |            | 548 |

<210> 10367

<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 10367

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| atattttatc  | aattttattg | aaatattcca | aggatcccaa  | ccccatttaa | aaataaaaat  | 60  |
| tgtaaagcac  | tccattcaat | aaaagcacat | aagtccccct  | caataattag | tatgacaatt  | 120 |
| cacgatacag  | ctcttactct | gggagagttt | atttttaccct | ttattccaaa | aggcacaaag  | 180 |
| tcacatgagg  | cctcagatat | taaccccact | gcattgttaat | gacacaccac | tgagggtgcag | 240 |
| ctcaatgtaa  | ttattaaagc | ttataacaca | cttccccaaag | aatttataga | ttctttctat  | 300 |
| aaataataat  | ttaaaaaata | ctgcacctta | agaccaatac  | aggcttaaca | aaagacctga  | 360 |
| aatttctgca  | agggcagttt | tgtttcttga | tagaagtaca  | acttttgaaa | gtctattccc  | 420 |
| agcaaaaagaa | acactagacc | cagcttggcc | aaagaaacaa  | aataaaacag | gtgatttcta  | 480 |
| acacgctaaa  | ggagtcattt | tcacagctt  | ccaagaaagc  | agtctgggca | ttcagaaagg  | 540 |
| ttctatgata  | caccagctgn | aggcattaga | aatn        |            |             | 574 |

<210> 10368  
<211> 570  
<212> DNA  
<213> Homo sapiens

<400> 10368

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| cagggaggag | accactttta  | ttgcttgtct | gggtggatgg  | ggcaggaggg  | gctgagggcc  | 60  |
| tgcccagac  | aataaagggt  | ccctcagcgg | atgtggggcca | tgccaccaag  | gaaggggggtc | 120 |
| ttcatgcagc | cgggtgcagag | ctggtccatc | cagaggggtg  | cctcgtgctg  | cagcggcgta  | 180 |
| cggcgtgggt | agaagggtgaa | gtccacgcgg | tagtttagca  | ggcagctgag  | ggaggccatg  | 240 |
| tagaggtcag | agaagcgcac  | gaggcgcctt | gagaagtagg  | tgggggttgg  | gaaggtgcgg  | 300 |
| aagatgctgc | cgaactgcgc  | attgaacagg | gccttgggtga | tgccacctcag | ctcctgccgc  | 360 |
| tccttcaccc | aggcagccag  | cacctgcctc | gactccgcgt  | cctgatagggt | ctgcattgcgc | 420 |
| tccagcagcc | ccgtgagcgc  | ctgctgccac | gtcagcnagt  | gcattgtactg | ctccgtgttg  | 480 |
| ataatccgga | tcnacccttc  | aactngggga | taatggccct  | gtccccaacc  | tgcccgaaca  | 540 |
| tgaaatccgc | nnaacacttt  | tnaagnggcc |             |             |             | 570 |

<210> 10369  
<211> 566  
<212> DNA  
<213> Homo sapiens

<400> 10369

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| aattacgcat | tttaaataatc | aatatgtgca  | tttgttttta | cagttataaaa | tttttttctc | 60  |
| acctgtttta | gacaacagct  | tgtaatagtt  | ttgaatccat | taagatgttg  | ctttcaattt | 120 |
| gaaatatttt | gtgtatacat  | gtatataaaa  | aataacccaa | tgatgactc   | atctgaccga | 180 |
| tgtttaagat | caataacggc  | ttatttttca  | acatgcagtt | aggaagagag  | ggaagcaagc | 240 |
| caacctctct | acagtatctt  | tttgctggct  | tgtttttgta | gtggatatcaa | tagtggtttt | 300 |
| tggagggaac | catgtgcctt  | cagcctatct  | agtcaagatc | agataccacg  | atcaacaaga | 360 |
| gcggtagaag | agatggggaa  | aggggagtg   | gtaagtgtta | aatatcaatt  | ttgtaaaagt | 420 |
| tgcattttgg | actccttcta  | ggcacaggat  | taaaaacagg | nccatgagga  | aaaatttgta | 480 |
| taattaggaa | aaactggaat  | caaatacaggc | ctaatagcgg | aattaaggtc  | ttttaatagn | 540 |



tgnctatntg gaggttaacc tncctt

566

<210> 10370

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10370

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gggaaatgat  | gttcttcttg | acgtataaat | aaccatcagg | tggccaattc | tcatccagag | 60  |
| tggacagggt  | ggaatgggat | catccctgct | ttcaaatagg | gacattgacg | tacagagaga | 120 |
| ggagtgggtt  | agctggggcc | ccagggcaca | gcttcaccac | cctggggagg | tctggggaga | 180 |
| gcatcctgtc  | cttcaggaca | ccccccacca | gcggctggag | gtgagcacgc | catgagtcgc | 240 |
| cccaggctctg | ggaagagtgg | gtgcatgggt | gcttaagagg | ctgcattctc | agcggggcct | 300 |
| gcacctgccc  | cgtccctcaa | cccctgtagc | cgacgtctcc | tctgctccac | ttgatgtcga | 360 |
| agccgggtca  | agaccagctc | tgaggcctga | atcaagctgt | gctgcangat | gtgcacgccc | 420 |
| ttcagggaga  | ccacggnaag | cttctgcacc | catcccggtc | angtccacgt | gagccatggn | 480 |
| cacaggggac  | tgganaacnt | ccgttgcnca | gcanatgg   |            |            | 518 |

<210> 10371

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10371

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gaaacaagta | aatcattggc | tttattcttg | gtcctggaag | ctccactgtg  | agtctgaaaa | 60  |
| aaagacacaa | caggggcggc | agccctgggg | gctggtgcag | aaaatagtc   | ctggctcctc | 120 |
| tggccctggg | agcctaaagg | gcagtgagga | gaaggcttag | caagaggcct  | ggagcagggg | 180 |
| aagtcaggtc | cctcaggaac | ccctcctccc | ccagaggaag | gaggaagagg  | gctggagagt | 240 |
| ctgctggaga | gtctgctcag | ttcctcagca | actgcactgc | aggagggtgc  | aggccatggg | 300 |
| ttactccttg | cccttctcag | gggcagtggg | ctcccagagc | cacttggttag | tcccagggg  | 360 |
| ctcagtccca | gggtccagcc | cgtgactccc | ctaagggccc | ctcgcccttc  | aagtcagct  | 420 |
| notcaaaaga | ngagccgttg | cacctgactc | cttgaactgn | gctcgctgog  | gtgtancgta | 480 |
| tnccancacg | gttgtcgccc | cagtacatg  | tggaactgaa | gctnccggtg  | cangnttact | 540 |
| tcaactaca  |            |            |            |             |            | 549 |

<210> 10372

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10372

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |

09629469.072800

|              |              |              |              |              |              |     |
|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | 480 |
| nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | 540 |
| nnnnnnnnnnnn | nnnnnnnnnnnn | n            |              |              |              | 561 |

<210> 10373  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 10373  
 atttaaagac aatagagggg tgtagtatta tgacaaaact agttccctca aaaactgaac 60  
 tgtgttagca ttgattagag tgtctaatac ataggcagac ttgggggaaat accagggtt 120  
 cctcaggata tgggtgttgat tctgacggta acctgcagcc aaatgtcaag ggccataggc 180  
 tgaatgcctg gggagctctt ccaggggtaa agaatcctct tgggcctggg cccctccagg 240  
 cagccaagat agggcagagg cagagagatg gccagacct ggccaaatgg gttctatatg 300  
 agccgccttt caataaagac ctgggctgtg atgacccag ccgtgttctg tgccacagcg 360  
 ggccgagtg cacaagtgg gtccctcgggc catgtgagac cccactgagt aactgaaca 420  
 acacgccatc aagcaggttc catctgacac ttgncctgggg ccacaagcc aagcttcagn 480  
 ancatcgnaa cctttgccgg acaaaagccc aggggtccct tagttcatct ggatgnttga 540  
 gtccccttcc ttggcttnnc ccggcccaca cttn 574

<210> 10374  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<400> 10374  
 gtttatattt ttaatatattt acatcagttt ggctgtttaca tggaaaatag gttacaagag 60  
 agacaaaagc agaagcagaa agatcagtta tccagtatta cagtaatcca gaggcctgat 120  
 ggaaggggag cactgagaaa tggctggatg tggaaacaaaa tctgcaaaaca gctgatggac 180  
 tggatgacga ggcatgaagt ggagaggaga ggaacaagg atggctcctg cgtctaaagc 240  
 ctagacagcc gactgagcaa caacaaggct tcagctgaaa tggagacctt ggcagggtggg 300  
 gtgcagggtg ggagctggat cagaagttct gatgtagaca cattaacacag gatgtgctat 360  
 tagacatcca agtggagaac ccgagtagac tgggtggatat gtacctctgt agctcaaaaag 420  
 ggaagggtgga atgtaataga tgcccatcnt tgggggttca ttgggcccgc aaaaacatgc 480  
 ctgaattggg gtanagacca acatcnttaa ggnccatcctc tggcttccan ggaaggaaat 540  
 attttttccg gatttcttat tccnccatntt gacaa 575

<210> 10375  
 <211> 413  
 <212> DNA  
 <213> Homo sapiens

<400> 10375  
 gcgggtcacc cgtgctgttt atttacgcag ctgtgttttc taacactaat acaatgcatg 60  
 catgtattgt gtgttacatg gtgaaacaga acagatcctg aagttacaca gatggcgtgt 120  
 gcatgggggt ggtgagcacc cgcattggcct ccgcaaaatg agtgccgctt acaaaacggc 180  
 cccaatgccc ggcagtccgg ctgggccttt cagggcacca gattcctcgt tccaggccaa 240

09629459.072800

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| gtcagcgacg | gctcggggaa | gtctgctgcg | gotaggagcc  | ctcagtgtcg | gtgttgtcgc | 300 |
| tgcccggtgt | gttctcccg  | tcctctctcc | cctgcccggca | tcctttctgc | atcttctga  | 360 |
| gggcgcgctt | cctgcggnag | ttctcaaaac | tcctctngan  | ggnccnnncg | ttc        | 413 |

<210> 10376

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10376

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| cgccactgag | cattttattc | aagccagcaa | ccacgggggt  | ctggagaatc  | ggggagcaga  | 60  |
| gtcacgcaag | cagaggcagc | gtttccttcc | attcacaccg  | agggtggcctc | ctgtggacac  | 120 |
| ggggcctcac | cgaggcgctg | gcggctctgg | ggtgcagctg  | tgggcggcct  | gccagctgct  | 180 |
| tgaggcttca | gggccttctt | ccaggacatg | gggtggctgg  | ccagccctct  | tcgctacgac  | 240 |
| ccgcaggtgt | ttgaaggccg | ggggcagcct | gcgccccagg  | aacggcgggg  | tggtcacgtc  | 300 |
| gcggatcatg | agcacgtact | cccctaggtg | tgctgccgca  | gcctgtctct  | ccgtggctct  | 360 |
| cccctcagcc | tgctgcctcc | aggaagctcc | tgtgccctgg  | gtgggggtccc | ctgggggtgca | 420 |
| agnccgcctt | ggaatcttgc | cgcttgcctt | cttgggggaag | gttgnccagga | accggaangg  | 480 |
| gnnganccaa | gccggggggc | gncccaggan | gacaattgg   |             |             | 519 |

<210> 10377

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10377

|             |            |             |            |             |            |     |
|-------------|------------|-------------|------------|-------------|------------|-----|
| gtttgattct  | aacaaaattt | attatgcagt  | aattacaaag | gttaaagact  | cttccatctc | 60  |
| aaataaaaaat | aacagttata | attacacaca  | taatatagta | ccttatagaa  | tgattccaat | 120 |
| aaatatcaca  | ggaaatacag | tgcattttca  | agttggagag | acaaataactt | ttcattcac  | 180 |
| agtgtttgac  | ataggaaagc | ctattttacat | aacaatctgt | ataaagtcac  | gctcttagta | 240 |
| acagtctata  | cagagctgtg | ccaacacaat  | tccttcagaa | tgtgaagtac  | cgggcaaacc | 300 |
| actcctggcg  | ctggggatct | ggagaagcca  | ctggagaagc | ttcactctga  | gcaggactca | 360 |
| aaaatgtctt  | gggcccttta | ggtggcactg  | gctgtggaag | tggtttgotg  | ctgttgaact | 420 |
| caatatcgtg  | gactggagaa | ttaggaatgg  | gatccaggcg | gntaggatgt  | ccattggcca | 480 |
| cttcaccaga  | ttncagagca | cttaaatitg  | gaacactcac | aaacctgttg  | gtgggggatt | 540 |
| aatcatcttc  | ttcttttnt  | t           |            |             |            | 561 |

<210> 10378

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10378

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gccttttgaa | gcccttcttt | attgggaaat | aaatacagag | ttaaacaggn | gggccggcca | 60  |
| acatctgngg | ctttggaggc | caaaaggaag | gagtctgact | tgctcanaac | tcnatctcc  | 120 |
| atgagctggg | cattccccac | gatcacctca | ttcactcggt | tagctttggc | ttcaatcctn | 180 |
| tggccacttc | caatcaagca | gtccttgatg | tcctgaccct | tcctgatcac | agcattgttg | 240 |
| canatgacac | tgctttggat | attgcttcct | tcctccacag | ngactgagtt | catganaagg | 300 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| caatttgtaa | tagtcactct | atcttttatg | agacaggatg | agccaatgac | tgagcgctta | 360 |
| atggatgact | tctctccaat | ctgngtctct | ggcccaatga | ggccgtcaac | tccaaccagg | 420 |
| tgtttgctga | caatctgggc | tgacnaatgg | actggnggtt | ctttggacag | anagcanaca | 480 |
| gcaatttggg | cccctgctgg | ttggttncat | gtaaaagncc | catgngctcc | tc         | 532 |

<210> 10379

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10379

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| caggatgtga | caacgttttt | aatgcaaagt | caaccattag  | catctttccc  | atgtacttat | 60  |
| tagatgtgaa | atggcaggac | ttcacggccc | cgtttgcata  | ttttcctact  | ccgcagacga | 120 |
| ataatatatt | cagggaaggc | agcgcantct | gtgccgtcac  | aatcgggoga  | ctgtgggtga | 180 |
| tgagggatga | tgattttcca | ggaggccctg | gggtcanagg  | actcctagag  | ggagtttcca | 240 |
| gcccctcaat | cgcagatgga | tggcctgttg | atgttgtaac  | tgggggtggaa | gttgancogg | 300 |
| tcacaggagg | tgatgcagtt | atcggggcca | gtcacgatgc  | ttttctccag  | gtaaacattg | 360 |
| agagtattgt | tccggaacat | tccacccgag | gcattctontg | cacgggtgggg | gctctgctcc | 420 |
| cgtaagcctg | gttactgggt | cctgtcactg | aaacagcctt  | ctgggtcctt  | gtaacccccg | 480 |
| aaccacccng | ggttggnrna | accttgcccg | gcanngtccg  | cgcttacgcc  | gnaagtna   | 538 |

<210> 10380

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10380

|            |            |             |             |            |             |     |
|------------|------------|-------------|-------------|------------|-------------|-----|
| gaacatgaag | aaaaacgttt | attataaaaac | ttaagaagca  | accaatcaac | caaattatga  | 60  |
| aaaaaaattt | tgctactgac | caaacctcat  | aacctgaaaa  | gaaccaagaa | aagaaattcc  | 120 |
| cattatactt | gtacttctaa | aagggtcttag | aggtctaaac  | tagacttcgt | tgcaatccag  | 180 |
| aaagttaaag | gactaaaaaa | ctggagaaat  | agagttaaga  | attagattta | tcagacagca  | 240 |
| tagtctatgc | tgagatagca | aaatagacat  | ggctttatatt | gctgattgag | aagtgtgtcca | 300 |
| gccgtgggct | agcagtcatt | tacatatcag  | tgaccaaattg | caaacatacc | cgtactaaca  | 360 |
| gtgcttttgt | ccatgacata | cccttttgac  | agcccaaagc  | tgaaacgtca | actctatctg  | 420 |
| gggttacttg | cttatacaaa | ggatgttact  | ctagcaattg  | gtgcttgagg | gcaaganccg  | 480 |
| atgattgnca | ctagtaggga | agaaagcnga  | agtggatgca  | acttacactg | gatagtccct  | 540 |
| anccttctgg | gattaatgga | aaaggtgn    |             |            |             | 568 |

<210> 10381

<211> 403

<212> DNA

<213> Homo sapiens

<400> 10381

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| cgctctnttt | gaacttgaac | tccaagtctt | ntaaacaccg | gccgtgctcg | gactgcagggt | 60  |
| cttcacgtaa | cttctaattg | gctgcttgat | gatgactntc | caggttccta | agggcccggt  | 120 |
| cagcctgggt | tttgtcttga | aaaatcttct | ccaactcagc | tcintgttct | gccaatnttt  | 180 |
| tctgaaactg | gttttgnaaa | tcctccattt | ctgattgatg | ctttgcanac | agttntttgc  | 240 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gtaaattttc | taaacataaa | tctttttcaa | attcccaatc | ttccttcagg | gtctttacta | 300 |
| tctgggcgtt | tttctccatt | tctgattgna | acttctcctt | nagctcagct | gagcaccacc | 360 |
| tnctccttct | ccngngcgtg | ctgntccctg | aggagctcca | gnt        |            | 403 |

<210> 10382  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

|             |             |
|-------------|-------------|
| <400> 10382 |             |
| aaagaatgtg  | tccatttatt  |
| ctgcatttag  | ctccaaacgt  |
| ttgcacctta  | ctatcagggtc |
| tgctgagact  | gtggcagccc  |
| ggggatgctg  | tgctcctgac  |
| gaagtacaag  | aggggtgcccc |
| tggagagacc  | ccagtgggggt |
| aagaaactta  | agcttgaagt  |
| tctgncaggc  | tctttctttt  |
| ccctgcanac  | agaccggacc  |
|             | gcct        |
|             | 60          |
|             | 120         |
|             | 180         |
|             | 240         |
|             | 300         |
|             | 360         |
|             | 420         |
|             | 480         |
|             | 540         |
|             | 564         |

<210> 10383  
 <211> 511  
 <212> DNA  
 <213> Homo sapiens

|             |            |
|-------------|------------|
| <400> 10383 |            |
| gtaaaacttt  | cccaagacat |
| cagccttctt  | acttgtacct |
| gatgtctgtc  | aagacattcc |
| ggctagagag  | acccaaaata |
| tactgcccc   | agttagcttc |
| tcttggccac  | tgtgaggggt |
| ggagccaggg  | tccagagctg |
| cataacctgn  | cataaaggca |
| angactggct  | tggttcctgg |
|             | nacttntgan |
|             | g          |
|             | 60         |
|             | 120        |
|             | 180        |
|             | 240        |
|             | 300        |
|             | 360        |
|             | 420        |
|             | 480        |
|             | 511        |

<210> 10384  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

|             |            |
|-------------|------------|
| <400> 10384 |            |
| gacattttat  | attctttgtt |
| gtttaaatga  | atgaccacga |
| cagaaatggc  | tatccacacc |
| gcataagccc  | cagtttccac |
| ggggctcagca | attccattct |
|             | ctctctggct |
|             | cagttcagaa |
|             | gctgtgatgg |
|             | tctgtttaga |
|             | 60         |
|             | 120        |
|             | 180        |
|             | 240        |
|             | 300        |

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|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gagcactgcc | tgcaggtcaa | aacctggaag | aggctctccc | aggccaggcg | acaacccttc | 360 |
| aggtgcagac | ggggaacaaa | aggcttaacc | tgtgataatc | ccaacacctt | ctgaaaaaag | 420 |
| agtaacagtc | atccagcaac | gggccatggg | taggggcagg | cgttaacaag | ggacactgcc | 480 |
| cctggctcac | atgtcctgtt | canaagggtg | gcacagatat | angctcgctt | ttaaggatct | 540 |
| ggtggacctt | ttttaanctg | gcn        |            |            |            | 563 |

<210> 10385

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10385

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| agttttaaaa | acttaaagat | atttattttt | taaaggggaa | cttattttgag | aaacataaaa | 60  |
| acacaacaga | atactttata | caccacttaa | tataataaaa | cagacaataa  | taacatacat | 120 |
| ttttgcaagc | ataaacactc | aggttactaa | taacattttg | gtgggtctaa  | cagttatgag | 180 |
| cagatgagcc | atattttata | agaaatttgt | cataaaggga | aagggtataa  | tgcatatcac | 240 |
| tttggttggt | aattgtgtat | accagctttt | ttaactcttg | tcacttgaaa  | tactgtgccc | 300 |
| aacaacctca | agtcttttga | tgagattgat | ggaaactgtg | ctgggtcacc  | actgcatatg | 360 |
| cagtcaccca | aagagctgag | atctcaagaa | attttatctt | tcacaaatgc  | agatgtacga | 420 |
| aaaggatatc | tcattttatc | aggaagtttc | aacattttat | gtcacactca  | atgcttatac | 480 |
| acaaagtcag | tattgngata | atgcactttc | atggagtcag | attctgatat  | ccagongcag | 540 |
| aanccnnaga | ggtccgtttg |            |            |             |            | 560 |

<210> 10386

<211> 413

<212> DNA

<213> Homo sapiens

<400> 10386

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gacttcttcc | tttattattt | atttattttg | agacggagtt | tcactcttgt | tgcccaggct | 60  |
| ggagtgcagt | ggcgcgatct | cggctcacca | caacttccgc | ctcccggctt | caagagattc | 120 |
| tcctgccttg | ggccgagcac | ggtggctcac | gcccgtaatc | ccagcacttt | gggaagccga | 180 |
| ggcgggtgga | tcacctgacg | tcaggagtac | aagaccagcc | tggccaacgt | ggtgaaaccc | 240 |
| gtctctatta | aaaatacaaa | aactagccgg | gcatgggtgg | ggatgcctgn | aatcccagcc | 300 |
| actcgagagg | ctgaggcagg | agaattgctt | gaaccgggga | agcggggggt | gccngagacc | 360 |
| gagatcgngc | cactgcattc | cagcctgggc | aacangagng | aaactncgnc | ccn        | 413 |

<210> 10387

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10387

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cttcagaacc | tttttattca | tcacttaacc | aacagagggt | gttggctoga | actcaaacta | 60  |
| aaatggcctc | aaaaggccca | cctcggttac | acatgacagg | gcaaaaccag | aagtagggac | 120 |
| agagtttagc | ctcagttctc | tcagagaaag | accaagcatg | tatttacaca | caggtgcctc | 180 |
| attaagaact | gattggcaat | gttccaccag | cacagaccca | gagtgtgcag | aaatccgttg | 240 |
| gggctctgta | tatgtgtcat | tcagacaatc | cgccgattcc | tcagccataa | acaagctctt | 300 |

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|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gcttttttggg | aggagggtga | tcagcatgtt | atcttgaatg | atggcaccat | ttgtttactc | 360 |
| tggaactttg  | aaggggaggt | gacaacttat | tttctccct  | gaatctgaga | tcagtggtcc | 420 |
| gttcagagta  | tctaaaaatg | gttcctggaa | gacaggtggt | ggtggttgcc | ctaacagaga | 480 |
| gttacagggt  | aatggggtgg | gctctttcag | tacttaatcc | gntggttttc | aaaaaccctt | 540 |
| gnacctgggg  | nccctggacc |            |            |            |            | 560 |

<210> 10388  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

|             |             |
|-------------|-------------|
| <400> 10388 |             |
| gaaggatat   | gtaggctttt  |
| attaggggcaa | gcattttccat |
| atccatacag  | atttcattaa  |
| 60          |             |
| aacaaatgga  | tgctcaagt   |
| atctttgtta  | aacaggatcc  |
| gaaatgaagt  | aaatagtagt  |
| 120         |             |
| taaaattaat  | tataaataaa  |
| gacatttcag  | cacataaacc  |
| aacaagtctt  | ttctagattt  |
| 180         |             |
| ttaataccag  | gacctaacag  |
| catcattttc  | caagtaagt   |
| acaaataact  | aatgtgaaaa  |
| 240         |             |
| ccatatitaa  | tatagatgat  |
| gtcacaaatg  | acaatgtggt  |
| tttccatagt  | aaagaaatac  |
| 300         |             |
| gttaattttc  | ttaaatccta  |
| tttggtatta  | caaaataaat  |
| tttactggtc  | aaaaaacaac  |
| 360         |             |
| caaaaaaac   | caggaaaaca  |
| gacatgatgg  | aaaggttgat  |
| aaaatatatt  | aataacttaa  |
| 420         |             |
| aaatgctgtc  | acaagcatgg  |
| aaatgctacc  | attatcattt  |
| gaatacnaca  | aaatgctata  |
| 480         |             |
| aagcaaagag  | ttggcagaat  |
| acagtagaag  | agctattctg  |
| aaacaaatga  | agagtcagaa  |
| 540         |             |
| cnttaaacng  | gggccaggat  |
| tttt        |             |
| 564         |             |

<210> 10389  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

|             |            |
|-------------|------------|
| <400> 10389 |            |
| gggctagaac  | cattttaata |
| taattataca  | tatctgcaa  |
| atccaggaag  | aaaaggttta |
| 60          |            |
| tgcatatata  | acttttccat |
| ttaacatgtg  | caagcataaa |
| cgacaatgat  | ctcagtttaa |
| 120         |            |
| taattcatca  | gggtcagagc |
| aattgaccaa  | tgtctgttta |
| ctgctaggct  | taccaacagt |
| 180         |            |
| aaattacaga  | tgaattagt  |
| tccttttgct  | tctcttctct |
| gactctcttt  | gtccagagac |
| 240         |            |
| attttgtcgt  | aaagtttcag |
| tgagctcac   | ctccagccaa |
| aggtaatctt  | tttagatcag |
| 300         |            |
| tactcagttg  | ctctgaattt |
| tgcttataat  | tataacctat |
| ttaatcacag  | aagaaccctt |
| 360         |            |
| gcanagggtg  | agttcaagg  |
| tgcatacaat  | aacngganna |
| tcncagnntt  | gnag       |
| 414         |            |

<210> 10390  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

|             |             |
|-------------|-------------|
| <400> 10390 |             |
| ggttttagttc | caacaaaaact |
| ttattaataa  | aacaagcagg  |
| tggctggatt  | taaccaag    |
| 60          |             |
| gctgtaatct  | gotgacccat  |
| gatgtagaag  | actgagtgcc  |
| ttacagacca  | atcctgtctac |
| 120         |             |
| aaataacaga  | tataaattct  |
| aggaagaaaa  | cctatttgag  |
| gctttggaga  | tttaacaaaa  |
| 180         |             |
| atagattttg  | aagaggagtc  |
| aacacctgga  | gcaagtgatt  |
| tggtttttgc  | agtttttccc  |
| 240         |             |
| tggaggcagc  | tgcaatgggtg |
| gtggtgttgg  | cacaaggact  |
| gggggagggc  | aggcagcaaa  |
| 300         |             |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aactcttgcc | atctttctga | ctggaggaaa | ctgggggaaa | gagcctggaa | aaaccatagg | 360 |
| tgctagagaa | tgatgcagat | gcccagaaa  | gaagacagcc | ngaagangac | aaccccagat | 420 |
| tctatgttta | acctcagccc | aagtcnttg  | ctgctcctga | accatgtatg | ttggggcaat | 480 |
| ctgaaancgc | tttaaactca | ggttaaagaa | cctgaattgn | gtctatgccc | tgctctacag | 540 |
| gcatggcan  |            |            |            |            |            | 549 |

<210> 10391

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10391

|             |            |             |            |            |             |     |
|-------------|------------|-------------|------------|------------|-------------|-----|
| gggtgtggg   | cttgtcttca | tttttggtac  | gagtaaacag | gcagcacctg | tcactgggtgc | 60  |
| actatttaca  | aagcctcttc | aataaataat  | ttagagagaa | tcctacccga | atggctctaa  | 120 |
| catittgtaca | tgaatattgt | acatgattaa  | aaataaataa | ggcaatataa | tacagttttc  | 180 |
| ccacaaataa  | aaaggaagtt | gtttttcacc  | aaaccccag  | ggacattatg | gctaaacaca  | 240 |
| gttcctgaac  | tcccaggaag | tggctggggt  | ttggagttgc | tgatgatgga | gatgtttgcc  | 300 |
| cctgaagtgg  | agaccttgcc | aagtcctgcca | tggggtcctt | tccagaacag | tcgtgagccc  | 360 |
| agagaaggca  | gcatggtccc | cgcgacggct  | tcctctcact | gocctacaag | tggccacacc  | 420 |
| ttgggcaagc  | ttncangatg | tcatgtgtga  | ccttcgggtt | ctgtggaccc | caagcacaga  | 480 |
| tggcgtggct  | ggctctcttc | taatcttaca  | ggccaaacca | ngggtcctgg | actggcttca  | 540 |
| ctcacgcct   |            |             |            |            |             | 549 |

<210> 10392

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10392

|             |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| accattctag  | atttttatta  | aaaaataaac | aaacattagt | cctacttttt  | gtctctaacg | 60  |
| cttcatgaat  | ttatgtgtca  | gccttgtgca | ggggctgtgc | taatctctgc  | attgttccta | 120 |
| tttttagtaca | tgggctactg  | aaacaagcag | agtcctactt | cttaaaacttc | ctcttcctta | 180 |
| cacgtaaaaa  | gccaccaggt  | caaggtcttt | taatttttgt | gtacactatc  | actgaatgcc | 240 |
| atttataaat  | tctaatttta  | aagagaccct | taattttcaa | aggaggactt  | tgatagcatt | 300 |
| agttttcaga  | aaagatgact  | tgcaattcta | acttagtact | tgaaagggtga | gatttttata | 360 |
| ggggaggcct  | ataaaaaggng | tcttanaaaa | aaaatgagcg | ctctcaaacc  | tttcttttgg | 420 |
| gaatgaaggt  | gtggggctta  | agtgactttt | tnaaagggga | acaactgacc  | ttncggngg  | 480 |
| agaagcccc   | tatgcgaact  | gtggccaacc | gcaaaggatg | gttctgngca  | cattcctggt | 540 |
| aancaancg   |             |            |            |             |            | 549 |

<210> 10393

<211> 452

<212> DNA

<213> Homo sapiens

<400> 10393

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| cgcgactgag  | acgaaacgac | acacaccttt | acttaatgga | aggcttcgct  | tacatcctga | 60  |
| acttaaaagga | actacagaaa | gggacagaaa | ctgctttctt | tttaaacaaat | gcgctggaag | 120 |



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gttactagtg | ataggaggct | tagtgaagcg | cgtgatgtga | acggccacgc | tgcaaggctg | 180 |
| gagagaagag | aggagggagt | gaagttgcac | cctgatcgcg | aatcctcggc | cttttatcag | 240 |
| gggcgcgcc  | actcggggtc | cgaccattcg | cctccaacga | ggggacagcg | aatctgctgt | 300 |
| cgtgtgcagt | ccacagcaac | cacaggtggg | gcaacaggag | gagcgcttgg | gcacgaccac | 360 |
| gtgaccacgc | acgagccacc | gcccgcacca | aaatgaaatc | aaatccta   | ctcccaatcc | 420 |
| cggnatgccg | gnacttccan | ccttnncang | na         |            |            | 452 |

<210> 10394

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10394

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| gcataataaa  | ataacattta | ttaacttagg | ctgtacaata  | tattgattta  | gtcaaataaa | 60  |
| aaataaccgt  | cacaaaaatt | gaagtaaaat | ctgtaagatg  | ccattcagac  | tgaattttat | 120 |
| attctgaata  | agacaaggga | ctgccattca | cttaaagcaa  | aatggctcca  | attccgttta | 180 |
| tctatctatc  | tatctatcta | tctatctatc | tatctatcta  | tccatctatc  | tatctatcta | 240 |
| tctataagtc  | tcgctctgtc | acccaggctg | gagtatctat  | ctattttattt | atgagataag | 300 |
| tctcgctctg  | tcacccaggc | tggagtgcgg | tgggtgcaatc | tcggctcact  | gcaacctctg | 360 |
| cctccacacgt | tcaagtgatg | ctcctgtctc | agcctactga  | ggagctggga  | ttacaggcat | 420 |
| gcaccatcac  | acctggctaa | ttttggattt | ttagtagaga  | tggggttcac  | catgttggcc | 480 |
| agctggctctc | gagcttctga | cctcangggg | atccacccac  | cttggcctnc  | caaagggctg | 540 |
| ggatacac    |            |            |             |             |            | 548 |

<210> 10395

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10395

|            |            |             |             |             |             |     |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| gagctgcaga | gcactgagct | ttattttacaa | acttccacag  | aatccctcac  | cctccacccc  | 60  |
| agggtcctcc | ctctctggaa | ctcaggcagc  | agacaagctt  | gggtccaccc  | acctgcccac  | 120 |
| cctaggacag | ctgggcctga | gctgggcggg  | caggggattc  | catctcctgg  | gtgcgcctgc  | 180 |
| cagaggggag | aggctggagg | cggcgggaat  | gctgttctcc  | cccaggagtc  | agtcctcagg  | 240 |
| gcttctgccg | tgggacgtgg | ggccgaggga  | cctggggcac  | tgaccaggtc  | ggggctcggg  | 300 |
| gcagcatctg | cattggtgag | gccgggtgaa  | aagggtctgt  | ggtgccggac  | agcttctggt  | 360 |
| gctgggcctn | acggagacag | aggaccagan  | gtncaggttc  | ctgggggctg  | agcttttctc  | 420 |
| agactttgga | ggaaaaatgt | ccaacccaac  | angcaattgc  | ccggggcgang | ggccagtgtg  | 480 |
| tcanaagcgt | naaactcttt | cgcggngnga  | tgttggtaccg | gtgccggggg  | ctcagggaatc | 540 |
| gaaggcggga | n          |             |             |             |             | 551 |

<210> 10396

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10396

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| aagatatgac | acatttatca | tccataatca | aacaattcaa | atccctgact | gaaattggct | 60 |
|------------|------------|------------|------------|------------|------------|----|

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| tgaaaaatga | tacaaactct  | atggctgctt  | taaaggactg | taagataaca  | tgtttttaaa | 120 |
| gcctatataa | accactgatg  | cactttttata | tactttatat | tcaaaaactaa | tctatggagc | 180 |
| tcattccatt | ccattttaaaa | tagtaagtc   | tcacatat   | gtggttactt  | ttacagtgtt | 240 |
| tttaaaaaag | gagtactgct  | aataatttaa  | gacatccata | agacagaata  | ggtgtgaagg | 300 |
| cttcttttta | tatttggggg  | gttttaggta  | atttttaaga | acttaaaatt  | attatttgtt | 360 |
| cctccttaat | atgaaactct  | tccaaaatac  | cttctgacca | gtaagtaa    | ggtccttang | 420 |
| cactgtgagg | tggattaatg  | atgaacatga  | accaggctg  | agaaagtgtc  | caattggatt | 480 |
| taactactgg | caaacagtta  | caagctctgc  | ttatccctga | cacnggaaag  | nctttacccc | 540 |
| ctcc       |             |             |            |             |            | 544 |

<210> 10397

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10397

|            |            |            |             |             |             |     |
|------------|------------|------------|-------------|-------------|-------------|-----|
| gtggttataa | atatatattt | aatggaaaaa | atatacat    | attgctgggtg | tgtgctcaaa  | 60  |
| tacattttgc | tgatggagtg | tgtgaccagg | aatgaccctt  | tgggtccacag | agctctgggtg | 120 |
| tatgcatgga | ggtggggggg | gggctatgaa | tcatttctgt  | gttctcaggc  | ccaggatcat  | 180 |
| gaagtacga  | ggttgaatgt | agcagagtct | gtctcttctt  | tcaaggctca  | taacaatgcc  | 240 |
| gcttcctcca | ggaagcctcc | cttgctttcc | cagagacagc  | tgtggcttcc  | tgctctgggc  | 300 |
| ttcccaggcc | aagttcccag | ggtccctctc | tgtgctccag  | ctgtgaccac  | agaggagtct  | 360 |
| atgcctgaaa | ataaaggccc | ttctgggatt | ctagccatgt  | ctaggcacag  | aggaggggaa  | 420 |
| ggggaaagtt | tgcagaatga | ataaatgaaa | aagctgggtca | tcctttgaat  | taaagtgtgga | 480 |
| atgaaaaagt | ctggttggtc | aaggatgggg | atcggaactt  | tgggtctgntt | atnttggc    | 538 |

<210> 10398

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10398

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gcagtaatat  | atgggctttt | aattaatata | tcaacttata | ggatctgcta | tcattccaag | 60  |
| aggtgacaaa  | tatgaacaat | acttcaagat | gcccttttta | tgttacatta | cagttgctgt | 120 |
| aactggtttg  | tattggtggg | aaaatcccag | gtactgcttt | tactactgtg | atttgttgcc | 180 |
| agcatttata  | acttgggagt | aaggctaaat | ttcagtttca | ttgctgaaaa | taaagatgta | 240 |
| acattttctt  | ccatcaagtt | catggttacc | cctggcttct | atccaggtta | agaatccctg | 300 |
| cctttaggga  | aaattctgga | cataatcagg | acactcctga | agaggtttaa | agaagaggta | 360 |
| agacctcaact | caagaattcc | cactgcagta | cagacagact | ttcatggntt | ctttccttgg | 420 |
| tgnottcang  | gttgttgcaa | atccctcctc | aaggcttggg | tggccaggcc | tcgntgatga | 480 |
| aatgatattt  | tgnaaaccag | gtcatnaaca | agttccgggt | tnctggcatt | gaccanttct | 540 |
| gaggtg      |            |            |            |            |            | 546 |

<210> 10399

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10399

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| caggaatata | cctagctgct | ttcatatcgg | ctttgatctg | ctcactgggtg | acctgacagc | 60  |
| ctttctcaca | gctgctttcc | tcgaggggaa | actgcttoga | ctggcccatc  | tgatgggagt | 120 |
| tgtacctctt | tcgaagtgga | gtcttgccct | ttccacttac | tgacaattct  | ctggactgca | 180 |
| ctgactctcc | agttttttct | tcacgttcag | agtaacgcgc | agtaccgttc  | ttaggaatcc | 240 |
| agacttcttg | gagttctaga | ctatcttctt | catcatcact | ctctgaatca  | tgaacagtaa | 300 |
| ttgaggttgg | ttttactaca | cgctgaagac | cactgggtcc | tgcttggtcc  | tcatcaacat | 360 |
| ccacaggaat | aattgcctgg | ctgtgagctg | gagtattatt | tccactctcg  | gccaccacct | 420 |
| ctccatcttc | ttggacgaag | gtcttccatc | tcatttaatg | cgtcaactgc  | aaactgntgn | 480 |
| tctctggctg | caaacttgcc | naaggcanc  | tcctggctga | gcctctggat  | aagggnatgt | 540 |
| ggccnggan  |            |            |            |             |            | 549 |

<210> 10400

<211> 140

<212> DNA

<213> Homo sapiens

<400> 10400

|            |            |            |             |            |             |     |
|------------|------------|------------|-------------|------------|-------------|-----|
| gaacatgacc | tggtgccttt | tatttaaaaa | ctgttactag  | ccctgcctgg | ggctcctata  | 60  |
| caaaaaacaa | acacaaccta | aaataaggtt | tcttccctgac | cccagagact | ggggagggggt | 120 |
| agggagggtg | gggnnnnnnn |            |             |            |             | 140 |

<210> 10401

<211> 502

<212> DNA

<213> Homo sapiens

<400> 10401

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| gggcaatata | agaagtgacc  | atagggcatt | ttaccactgc | cccatgtgca | atgcctcgat  | 60  |
| ggcattccaa | ttcattttct  | gtcactgcca | tgaagttaca | ctcttcacag | cagtagtacc  | 120 |
| ttttatcttt | ttcatgggtt  | ttagcatgtt | gcacaaatgt | tttagggcaa | ttggtaccaa  | 180 |
| acacacactg | aggacactgt  | aatcgtgcac | ttcttcttcc | atcctgaagt | tctttcaatt  | 240 |
| cacgaatttc | ctccatcaac  | ttctgtcttc | tctcctggng | aataatcata | tgtttttagaa | 300 |
| gtgaattgcg | atctcgaaat  | gtcccgtcca | cattctctac | aagcatatgg | ccttggggaca | 360 |
| ttaagatggc | gaaagtgact  | attcccatct | aaatgatnca | tcatatgccc | tgtnnggaagg | 420 |
| tgcttcttct | tccctaaaat  | tacaattgna | cttttgnntc | agggggtaaa | aatgantggc  | 480 |
| tctttcgggt | acttignaagg | an         |            |            |             | 502 |

<210> 10402

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10402

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ggcttaagca | catgttgata | atcagcagac | gtgtaaggta | gggctcaagc  | ctactcccca | 60  |
| aacccgccta | actcctaaca | ctgctcttcc | tctacagatg | acctaaactgc | ttctttcagc | 120 |
| tcctggctgg | cccctctttg | aaatcccttg | ttccgcagct | cggagtagaa  | gtcgactccc | 180 |
| tcagagacag | agtggatggg | ctgattatga | tactgggtgt | agctgggtcaa | aggacccacg | 240 |

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| gtgggggctg | cacttgacag | cgcgcgaggg | aaacactgat | ggtgatgtgg | taggcagttc  | 300 |
| gggttttcct | tgaagctctt | actatgcttg | cacttgaact | ccagcaccat | cctgggtgtac | 360 |
| gtgttgaagg | tggtgacagc | ccgacgccat | gcagcaggtg | aaggagaacc | aaggccatgt  | 420 |
| agaangccca | gcccataatt | ncaaacatgn | ggctccaagt | cttttggacc | caagttgaca  | 480 |
| gtcgtttgga | aaaacttggg | aatncttcat | gcggccaanc | atttcccang | anaacctgcc  | 540 |
| cggncccaag | gaaaccgcn  | g          |            |            |             | 561 |

<210> 10403

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10403

|             |            |            |             |             |            |     |
|-------------|------------|------------|-------------|-------------|------------|-----|
| agattctatt  | gctttattga | ttattacttt | cattaaacaa  | tgttagccat  | ataggatgat | 60  |
| taaaaaaaca  | actaatatcc | ttggaatatg | aacatcctat  | taactgatac  | aaactgactc | 120 |
| cacctttctt  | atagcagtga | attttcaggt | cacatacaat  | cagtaattta  | tactccaaat | 180 |
| acaacaatca  | cgtttgtatt | aatcatccag | tacaattcac  | aggttcctat  | tacacaggtg | 240 |
| gatgtactta  | gagagtttta | gcacaaaagc | tgatacaaat  | atgaaagtgt  | gctcagtcga | 300 |
| atgggttagtg | aggtgctaca | ggtgagtgtc | ggcgtatgggt | atcctcctga  | gctccacgat | 360 |
| ctggggagtca | gtcaaggtgc | ccccctcctg | gctgccttga  | ccagattcat  | tatcactgac | 420 |
| actgagacca  | gcaccagttt | ttaatgcaaa | tattaaatca  | tcaacttctg  | ggcttctcat | 480 |
| cggntatcaa  | gtgaccctgg | gcatactctc | caaagacggg  | accgggggttc | cnttttgggg | 540 |
| n           |            |            |             |             |            | 541 |

<210> 10404

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10404

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| canggcaaaa | aaagatattt  | tattttaaaa | acatgtttgt | gggttttttt | ccttttttgca | 60  |
| ttcagtagat | tgatcattcag | acatcacaa  | actatataca | gatncacaac | atttttttaa  | 120 |
| aaaaagccta | ttcctgatga  | acatttcaaa | agaacactgt | tttgtaatgc | accagtggga  | 180 |
| agggaagagg | caaggggccc  | ccacagcacc | aaggnggcct | ttgaggaggg | aactgttagg  | 240 |
| cagcatctac | atttagctaa  | ttgagggcc  | natcttcttg | cctcttgaac | tagatcctct  | 300 |
| agctttcctc | tggaatcag   | taaaggtgaa | agtgtgagga | gtcattcctg | ggctagtgcc  | 360 |
| ctgatggaaa | ggtgactgga  | cagggatttt | gttgagggac | ccactctcca | tccccctgga  | 420 |
| agaaaatgtt | tatccttaga  | aaaaagttct | gnttctggac | ctggactaat | ncccaacctt  | 480 |
| accccctaga | gagaganaaa  | nganaagang | ganccctttt | ta         |             | 522 |

<210> 10405

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10405

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| gaggcacctg | tgggacttta | ttagataaac | acacaccagc | tccagccaca | ggcttggacc | 60  |
| ggccagctga | cagggcggcc | tcagacaccc | ctgccgggtt | ccgtggcccc | tggccatggc | 120 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| tggaagcagg | gttcaggccg | ccccacttct | gtctagtcct | ggcaggcccc | ccctcacctg | 180 |
| gctctgctgt | gggagccgag | aacaaagacc | ccgcctgccc | cactccttct | gccccagggg | 240 |
| ctcagccagc | accacccctn | acagtggcct | gggcaggggc | tggggtagaa | agcctnacc  | 300 |
| tccccctgtg | agccagacgg | aaaatgcac  | tccaagagt  | gtctcgaggg | gcaggaagga | 360 |
| ggcctgcccc | tccctagcca | gtgcctacaa | caggggggtg | cctggggggc | anaacggccg | 420 |
| accgncacca | canganatcc | tggggnanan | aag        |            |            | 453 |

<210> 10406

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10406

|            |             |             |            |             |            |     |
|------------|-------------|-------------|------------|-------------|------------|-----|
| agcattcctt | tatttttagaa | gttcacacct  | ataattttat | aacaatcgtg  | aaaatgttac | 60  |
| tcagaactag | atgttttgat  | gacacatagc  | agaaatctgt | ggttcaagat  | ggtcattgca | 120 |
| aacttaacca | atctcagcat  | tctattctgc  | cttttgtttt | gattgcacag  | aatcaatata | 180 |
| attctgattc | atatggaaaa  | taacttaata  | tcttaacctc | cgctcaggat  | cttcatcata | 240 |
| aatgtaggtc | agtacatacc  | taaaaattgt  | caatgatcca | acatgggtcac | atgtgacatg | 300 |
| ctacacttgc | acctagtacc  | aaacaagctg  | atacttcaat | gagatctggt  | tggcatatac | 360 |
| acccaagcct | tgtctgtccc  | ctcagagcac  | tgcacacaga | tagtgaaaga  | acttgtgtca | 420 |
| ataagaaatt | cacagggatg  | aagctgggccc | cagtgtctna | cgctgnaat   | ccagcacttt | 480 |
| cagaaggccg | aancaggngg  | atcacttgan  | ggncaggagn | ttc         |            | 523 |

<210> 10407

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10407

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| aaaacaaaaa | aacttcattt | atatacagtc | agatataaag | acatctcttt | gactcctgtg  | 60  |
| catatatatt | ctcaactcaa | gattagggca | taaaagtcag | gctgctatgc | cagacatgct  | 120 |
| ctgccctatg | gcagggccaa | ggagaggatt | gtcacttgaa | agtgggaaca | cttaaattgga | 180 |
| tgacagacaa | cactggaccc | acagaccaag | agcattcttc | taagccctgg | agtagctcga  | 240 |
| ggaatggaag | agggaaattg | gaagcagggt | cccttttcga | tcttcatgtg | aagagaccca  | 300 |
| gcctcttcaa | gggtatccaa | gataaacttc | cgttccccaa | gcccaccaat | ccctgtccag  | 360 |
| ttccttttgt | tcctgccctc | ccaaatagga | cattctcctt | tgtgcccagc | ccccctttgc  | 420 |
| acagatcctt | caaggggagt | cccatgatcc | acaagggcag | agacctttat | agcanaaggc  | 480 |
| anggcaggta | cacactatct | ctncttatgc | atgggtgggc | actgctgang | gncttggttc  | 540 |
| angaaatccc | aaa        |            |            |            |             | 553 |

<210> 10408

<211> 286

<212> DNA

<213> Homo sapiens

<400> 10408

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| acgtatttgg | cattagaaac | cttttattga | gacaaggtaa | acagtgggct  | gaaaatatta | 60  |
| caggctgaag | gaaggctgag | gaaaccagta | tgaaggcagc | tcaaattgatg | aactaaatat | 120 |

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| attccaaagg | tactatztat | acttaaggca | gttttaaaag | tgaggcttta | accaaaaagc | 180 |
| ctttacatgg | cattcaaaac | aaaaacaaaa | acaaaaaaa  | cacggggggg | ggggggcact | 240 |
| taaatntntt | ggattgncn  | aaagagctna | attatgnacc | cnaaat     |            | 286 |

<210> 10409

<211> 508

<212> DNA

<213> Homo sapiens

<400> 10409

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| cctccggtag | agatgggggc | tccctatgtt  | gtccagactg | gtttcaaact | cctgagctca | 60  |
| atgatcttcc | tgcctcggcc | tcccaaagtg  | ctgggatttc | aggtgtgagc | caccatcccc | 120 |
| ggaccttttc | ttttcaaaac | atacataaaa  | atggaaatga | ataggaccag | ccagtggctg | 180 |
| tgatgcagcc | aaaacgccct | gtctggaaaag | catgcgtcta | ggtaatcttc | ctccgctttg | 240 |
| ccaggcggtc | tgaggtctgg | gctggaggca  | gcgggaggga | cagggtgccc | agtttgtgat | 300 |
| cttcttcact | gccggcggcc | acagacaccc  | ttcttttgga | gatcttcagc | ctcatggctt | 360 |
| tggctatctc | catcatcctt | ttctcactga  | gcttcaagtc | cctctgtaac | actgtcaggt | 420 |
| caatttgga  | gtcatgtatg | tgcaaggcaa  | gnttgatcac | atatgcngna | atcttcgcct | 480 |
| tnatagaatc | cnaaaattaa | ntcccnaa    |            |            |            | 508 |

<210> 10410

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10410

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |

<210> 10411

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10411

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| cactattttg  | ggtttttatt | tngttgatgt  | tggttaaata  | ttatctnttt | ttttatncac | 60  |
| aataacttnat | gtncctatga | aataaaaacag | gtagggaata  | tgtccagngc | aaacagagga | 120 |
| ctcacacctg  | tgcntanaca | gcaccatcca  | ctgattgtcg  | ctgcagtcca | cggcgttact | 180 |
| aagccctgcgc | caccacagtg | ctgccccagg  | aggcgctacc  | aggctnttcg | ggccacaggc | 240 |
| ctttcctcca  | ctgcatgtgg | cggcagggcg  | ggtaggctgc  | agggtcccat | gattgtgggg | 300 |
| cancctcaag  | ggcncatggg | gcaaaggccc  | tcgaagggtcc | cctcctnagt | aggggatgtc | 360 |

09629469.072300

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| attctgatag | tactggatca | tgttgtangt | cggntcctg  | ttgctgagga | agcagctntg | 420 |
| gatgaccttc | atgatgaaat | ttgcaacctn | gggctcagtc | atgttggggc | taaacctgng | 480 |
| ctttaaanaa | cttgattgcn | tgggccnnaa | aaccgggcnt |            |            | 520 |

<210> 10412  
 <211> 531  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 10412 |            |            |             |            |             |     |
| aaaataaacc  | attcagtaga | ttttattaac | caaacaaagc  | ctcctgagat | tggttctgtc  | 60  |
| acctcggagc  | cacaagctgg | gaaaagataa | ccacacccac  | ccagccagct | tccccaccc   | 120 |
| ccagctgttt  | ccaggcctgg | gactggagcc | ctgctgagac  | cttgtccac  | atctaggacc  | 180 |
| ctctagggcc  | tttgggcaca | gacaagtagc | aagggcctct  | gccaggaaca | cctagaggat  | 240 |
| gtccagctgg  | gtgcttctcc | actctcagtc | tgtttgcotca | aatgtggaat | tctaattccct | 300 |
| ggccagtttg  | catcccgggg | atccctgaag | agatcccagg  | aggggagtg  | tttgtgcaact | 360 |
| gaaggcgtgg  | aacagggcac | tggaggagga | agacccagag  | ccctggctct | naagacaggc  | 420 |
| ctggcttcaa  | gcacctggca | tcctttccaa | ggagaaggaa  | gcctgatgtc | tggattccca  | 480 |
| ttttcttctg  | aatgccagga | acaccanaat | gccctgtgcc  | ccttggaaga | a           | 531 |

<210> 10413  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| <400> 10413 |             |             |            |             |             |     |
| acccaaggta  | aatttttact  | ttaataacca  | taaaactgat | ttttcacctt  | catgaagtca  | 60  |
| ttgtcttaca  | gaagactcgg  | attcaaataca | tgactctttc | cctcagtagc  | cagaccactt  | 120 |
| actctgtacc  | tgtaaaagga  | ggtatgcggt  | gcttctaaag | catgcaactgc | atccattcat  | 180 |
| tcacgtggtc  | caactgggtga | tgacgggtctg | tcctccctt  | aagcaaaaac  | tggtctctaag | 240 |
| ggacaggtct  | tttcttcacg  | caaaagggtga | gcaatgcccc | cagcctttca  | ttctagaaaag | 300 |
| tgatgaggcg  | atgattttgt  | atccacaaaa  | tgcattatca | aagctcacca  | ctttagtgtt  | 360 |
| catttactaa  | agtttagcaga | gatctagaat  | ttgaaaaaaa | acagtttanc  | aatngaaat   | 420 |
| aactccnctt  | agcaaattca  | attaangnaa  | ctngntca   |             |             | 458 |

<210> 10414  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 10414 |            |            |            |             |             |     |
| ctgttaagat  | actttatitt | ataatcaaaa | tacgcaatac | aaacaaatgg  | acataacaaa  | 60  |
| gattcatata  | aataactggt | tataaacttt | atgaggaaaa | ataccctgtca | gcattggtggc | 120 |
| tgacttgtac  | tggttactct | gaactttcaa | ggaggccaga | gcaggaaagg  | gaaaggaata  | 180 |
| acccccacca  | cccccaacac | aagagaggca | caaattagag | ggctggggcac | aggctgtagc  | 240 |
| cctgggtgag  | ggggtaagca | gcttgacagt | tgctctgttg | tctctgggat  | ataattctgc  | 300 |
| ccaaggctag  | aaccacagag | aagagtttgc | actcttaagt | ccaggaaagg  | gactacctgg  | 360 |
| aaggcctgag  | aacaaaggag | aaagtttagc | acactaaaca | catggccagg  | accctaggga  | 420 |

cacaaggcaa ctggagagtg ggatctcttg gtaaattggca tggtaggcag attanagtcc 480  
tggctataat ccctanggcc ccaatcctag tagttacctg ctaccaacca ntn 533

<210> 10415  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 10415  
gacaggagtt gaagttttatt cttggaaaaa acaaagtccc atcctccccc cattgtctaa 60  
gaaggttctt ctaggaggcc cgcgccctcc aaatgggcat ttctcttttc tgaccccagc 120  
ttccaccaat gccgttaaga tgccgccact tgggtgaggg gctcctccag gtactgcacc 180  
aaagcctggg ccttggcctt gagcattcca aagcccacgg tctccttggc atacatacac 240  
agcagaaggt tggccactcg ggtgatggct acacggccct ccatgcagtc catgaggatg 300  
aatttgagat tgtcttcatt aaacgcttgg ttcccggttc ggtcgtaggc ggcccagatg 360  
ttactggcta tggcagcggg gaccggggcg tcagtgtccc cgtaaccaga gtaggccagc 420  
agtgatccct cgttattcag cancaggggt ctctggacgc cttcagtgtt ggcttggctt 480  
aacacctggg tcaaanctt tggggccaaa tgcctacggg tctnaacctn ggntttttgc 540  
cccaa 545

<210> 10416  
<211> 401  
<212> DNA  
<213> Homo sapiens

<400> 10416  
gctggcaact cagtctttat tgatggtttc atttttgggg tcaccagtgc taagagggtg 60  
aagggtgggg ggcaccttta tgtgtgtcaa ggaccccaga gcacccccct cagcagagaa 120  
taaattccaat ttanaactta caagggtgtg gggatgggaa gaggaaggga cacagtatgt 180  
acagatgctt aaggggatgc tggagggcct tcagcaacag ggaatggagg tgccaaagag 240  
gaagtcgggc agagtcagcc actgatctgg accccctcag cctcggccag agggtagatc 300  
tcaatggctt ccaccagggg tagcgctcc acagcagctt ccatgacggc caggccaacg 360  
gcagcctccg cctttgccan ctgntgccnn ananngcctg a 401

<210> 10417  
<211> 554  
<212> DNA  
<213> Homo sapiens

<400> 10417  
gtcaggaaaa tatctgatct gattcttccc agcttgcttc ccctacaact taataagccc 60  
ttactaacc cctgtatgta ttaactgcaa ttgcctagcc cggcatttac actotcaaaa 120  
gatttaacgc aattacaatc aaaaaacact tgtcatatat aacacttttt cacatggaaa 180  
taaattgggtg gtttaagggt tacaattcct ttgaataaaa tticagttat tagttacaaa 240  
atgctaagac agattgaggt ctcaaagaaa gaacttgaga aaattatgtt ttaaaggact 300  
tcacaaatat gaagcataat tgttagaatc ctgatacaaa gtaacttttc ctaggtttta 360  
ggttcaagtc tgaattcttg aattgtccag catcaacgag acctcattta tattcttttt 420  
attttatcat tactttcaga ttcagggtct ctcgctattt tgoccaaagct ggactcctgg 480



gctcaatggg ancctcctgc ttaacctccg aanggttggg ttnnaggctt gcccatggcc 540  
cggggttaca aatt 554

<210> 10418  
<211> 543  
<212> DNA  
<213> Homo sapiens

<400> 10418  
atacttttgt ttatctacaa cccaataaca gacatgaggg atggccctgt ctctctggga 60  
cagagcctca cagatgatgt ccatgttttg tgtgaatgaa actcaaacac tcttcagttt 120  
ttagagtcac tttctggtat cgagcgacca caccgaggag cacaccctgc ttccaaggct 180  
gtgccttct gcacacagtg ggggatcccc acccaccctg gctccctca agggctgcgt 240  
gcacagtgcc cgctttccag ttacctgacc caccctgagt ccttattcca ttttgctcgg 300  
ggctgacctc agacatgccc tgtggctcag ctctgccact actcagaaca ccagcctcag 360  
cttcctatg tccccagat tcagcagccc aacanggatt gggggaaatg ctccacatca 420  
ngtgggtngg tggncctgggt ccctgnaaac tggactgggt ttttaagcca tttcaggaac 480  
acaactaaca acaatggcc cttaanccca aggggatgcc aatttttccc tgggnntttg 540  
gcc 543

<210> 10419  
<211> 556  
<212> DNA  
<213> Homo sapiens

<400> 10419  
aaggaaatcaa aaacttttat tcagaataag cgtttagcaaa atgaaggtag gtgcctcata 60  
aatgcagggc cccagagtag tcagaaaggg attagaaaat aattacaaaa atattttgcc 120  
acatatatca atgaaactac aatcactggc tgtaaaatat agtcaaatgc aatcaagctg 180  
aaaagaaaag gtggaaatct ccaggttatc tgcccagggtg gcaggaaatc gacagccccg 240  
agaacgcaag tgctgctgtg ccgccaggcc cagggtctatg atccaaagtg acgggcagac 300  
taccggcctg caccacccca ctcaggctgc acacaagaca gccagcttag gatctccgtg 360  
ggctgctacc tatgtcacag agggctgatt aagggtctgc agtgttccca aatagggcct 420  
ccaatgagan gaggtgaaac tgcattacaa gaaattcact ggggctggac ttgactcttc 480  
acttggcgag tctnatgang cactngnct tcaatggctt ctggcantta atgcttccgg 540  
gcattanggg cctttn 556

<210> 10420  
<211> 525  
<212> DNA  
<213> Homo sapiens

<400> 10420  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

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|              |              |              |              |              |              |     |
|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | 360 |
| nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | 420 |
| nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | 480 |
| nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnnnnnnnn | nnnnnn       |              | 525 |

<210> 10421  
 <211> 535  
 <212> DNA  
 <213> Homo sapiens

<400> 10421

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aaccattact | gggactttat | tataatagtt  | aacaatattt | taggggnata | caatcatatc | 60  |
| acaattactc | aagctatata | caaacaggna  | tttatataag | tctacattta | aaaaagaaaa | 120 |
| agcaattaat | gacctcccca | aaatcacatt  | atcatcaaca | agattttttt | ctaaaagtta | 180 |
| cggccaatcc | aataacaaaa | aaattcacag  | ntattctgca | nacattttta | agatgcagga | 240 |
| attgnattgc | ncattatata | attataaacc  | ataacaagca | gttatatatt | ttaatctagt | 300 |
| ttttcacaaa | atttacatta | tcattgcaata | cttcactgnc | acagaatgat | ggaactagaa | 360 |
| caggttaact | tacaaacttt | taattatagc  | cccaaattta | gaattatttt | aaaggtatat | 420 |
| ttcaaattat | tatnctaaaa | aaacnctcca  | ggggaataaa | acnggnccca | tcataatttg | 480 |
| gtcccaggac | aaaatacctt | ttttaggggg  | ctctttggct | tggccttctt | ttcct      | 535 |

<210> 10422  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 10422

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| atgtacttgg  | cctctctcct | gacgcctcac | accattaagc | atggagaaaa  | gggaaaaagg | 60  |
| gcaaagggaag | tcaaaaaaac | tgaactagga | ttcgggcaac | agcctcaggc  | tgcccaacag | 120 |
| aacaggcttt  | tagggaactg | gacacacaga | ccagctgtga | ccctgacttt  | cacattgatg | 180 |
| ggtgaatggc  | aagtaggagg | taatgaaatc | tggaaatgac | aggggagaga  | aggcaaagct | 240 |
| gcctggagtg  | tcagtcccgg | aggcatttgc | ccctctcccc | cggggggccag | ccagggactt | 300 |
| cccagttcag  | gaaggccaca | acacttgttg | cacattaatt | ccgagcttgg  | cccggcttct | 360 |
| ttcctgtgcc  | ctctgcctct | gtgggcaggg | gaaggaggaa | gggtgtggtc  | ccttaggata | 420 |
| tccaagtgc   | cttccagctt | ccaggagcan | ggctgagatc | ccagagtcag  | tgccatgaac | 480 |
| tgtgcatttc  | actgagggaa | aagggangtg | tggnttttgg | actttgcatt  | tcacacanaa | 540 |
| cccctttg    |            |            |            |             |            | 548 |

<210> 10423  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 10423

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccccccggta | taaaagttaa | cacgatgagt | ttcatatttc | atcacagtta | tatggtctag | 60  |
| tgcatttcag | agtatttgga | cattatcaaa | gctgtccttt | cccaatgaaa | acatttaaga | 120 |
| aaacgttaag | cacttctcaa | gtaacatgat | gtggaattac | actttttgct | cttacctctt | 180 |
| ttaggtacac | acgtattatt | caacaaagca | aaactatttt | acagtgtctg | ttaacaaaaa | 240 |

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|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| gttctctatt | agatagaaga  | aactacagta | tcctgaagct | atttccccaa | gagctagttt | 300 |
| agtagataga | cctttggggc  | catcttattt | ttccttcttt | tttttttttc | agtaaggtaa | 360 |
| ctttccatta | tgcacatact  | ataccatcat | cattcattgg | gtggagatta | gctgggaagt | 420 |
| agctgnatat | ttttagggga  | gacactgatg | gcatggactc | tggatcgtgc | tgtgcttatg | 480 |
| ggtaaacata | tctaattggga | aattcgaatt | acatncanag | cttccggatc | aaagnccgac | 540 |
| attttcaa   |             |            |            |            |            | 548 |

<210> 10424

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10424

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| acacaataaa | tatTTTTtatt | tttaaacact | gaattgtaca  | tctttcatat  | aaaacatgag  | 60  |
| attctagcct | gttttaaaaa  | ataagtatac | ttgctagtac  | tatcttcact  | cttttttttt  | 120 |
| ttcagaagcc | aatgttctct  | aaatctgcag | cttcattcca  | cagctttaca  | gaatcataat  | 180 |
| ctcttgaata | tattttccaat | gttattaaaa | aataaaaaaat | catacaagat  | atatttagca  | 240 |
| cattaaaact | taagagggtta | cagtataact | gtccagacct  | ccaggtagca  | ctgaataactt | 300 |
| ttccagtaca | aagaggccaa  | tatgttagaa | taattaattc  | tctgtattta  | cttttattaa  | 360 |
| aaagagggtt | ttggtagtaa  | gaacaaataa | tctctcattt  | gttgccctgaa | atcctaaaaat | 420 |
| aggatcattg | gtttcttaggc | ttgctacttg | ctgcttagca  | acctgtccta  | cttgccctggc | 480 |
| cttccttctg | tggaaagtac  | agtggacatg | ggagcaggct  | gacgatngat  | gaataactcga | 540 |
| cgaagggn   |             |            |             |             |             | 548 |

<210> 10425

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10425

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnnnn | nnnnnnnn   |            |            |            |            | 557 |

<210> 10426

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10426

|            |            |            |            |            |            |    |
|------------|------------|------------|------------|------------|------------|----|
| acaataaaca | aaaagatttg | tattagaaca | tatacactca | gggaagaaag | aggtatcatc | 60 |
|------------|------------|------------|------------|------------|------------|----|

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| atcaaattgtg | gaatgttgaa | gaaatagtta  | aaatatataa | agactccaag | cacagctggg | 120 |
| actggctcag  | gctggggctc | acagaggcca  | ctgcacatca | gctccaggct | gcaggagcca | 180 |
| ccacctggcc  | atactggctt | cctccctgac  | gcagcacagc | tgtgcctggg | acacagagtc | 240 |
| gctctcaagt  | actggagcag | ctagcaagct  | cactccccac | tctcctcact | tatctctgtg | 300 |
| acaatgtcta  | tcaggctctg | gagcccgaag  | atatagccag | catcctggcc | ctcatgcacc | 360 |
| acgggtgtcct | cgccatacag | cctgcagggtg | gtgtgtgcaa | agtcgatcat | gcgcacatct | 420 |
| acagagctgg  | cgcccgatgg | gtttgttaggc | ataggcacca | gcagactcat | cagctggatt | 480 |
| cctctgacan  | gnccttccaa | tccttaacat  | tctgagtcca | ggaaccactt | tngggccggt | 540 |
| ccttggcatt  | atnaaangac | on          |            |            |            | 562 |

<210> 10427

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10427

|            |            |            |            |             |             |     |
|------------|------------|------------|------------|-------------|-------------|-----|
| ggagacaagg | tctcaccatg | tcacccagtt | tggagcgcag | tggtacaatc  | tcagctcact  | 60  |
| gcaacctccg | cctccgaggc | tcaagcgatc | ctcccacctc | agtctcctga  | gtagctggga  | 120 |
| ccacaggtgt | gtgccaccat | gcctggctaa | tttttgtatt | cttgggagag  | acagggtttt  | 180 |
| gccatgttgt | ccaggctggt | cttgaactcc | tgagctcaag | cgatctgcct  | gcctcagccc  | 240 |
| cccaaagtgc | tgggattaca | ggtgcgagcc | attgcacctg | gcctaacaac  | ttgtatatct  | 300 |
| aagaatagcc | tgaaaataat | gtcagcatgg | gctgtacttc | cccaatttta  | ggaaaggaaa  | 360 |
| gaggaactaa | aattctatct | cagatatgag | cctctgaatt | tcaaaaaaaaa | attgggagaa  | 420 |
| aatagacaac | aacaagacaa | aaaataatac | actttgacct | ttgggcttgg  | tgtagctttc  | 480 |
| ctggaaataa | ggngccttct | tctttgnaat | cagatgacaa | tgggaanagc  | tgactgggggt | 540 |
| tnggaactgg | ttan       |            |            |             |             | 554 |

<210> 10428

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10428

|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| cctgtgcctc  | aagacacctg | tttattgggg  | acacgactct | gcaataggga | tgacaggaat | 60  |
| cgtaccacaaa | atagcgacgt | ctacagggcc  | cctgatgggg | ctagaagggt | acagtgcctc | 120 |
| ccaccctcac  | cccttgatca | aaaataaaact | ctcagccta  | tggaccagca | aagactggca | 180 |
| gagtggctcc  | tcaacaggga | cacaaacctt  | ctctgccagc | ccagggacct | cgcttcttga | 240 |
| ccctcacctc  | tgccacttct | aaggcactgt  | gactcccttg | ggctgggtgg | gtaccgccag | 300 |
| cccaccctcc  | tacgcccgcc | gcgccttcca  | cctctggtcc | gcctggggct | gggatattgg | 360 |
| tcccacgctg  | ccccctgctg | gcttctctac  | ccaactacct | ctagcgctcc | cccgtctccg | 420 |
| cggggtaaaag | ctcactaagc | taatcgcccc  | tganggcccc | ctaccgttnt | ggccccccag | 480 |
| cctggctttt  | ccgggtctgg | acaagcccgg  | aagccttctt | cccttotgca | aagactggaa | 540 |
| ggggctttct  | gaaggg     |             |            |            |            | 556 |

<210> 10429

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10429

|             |             |            |             |            |            |     |
|-------------|-------------|------------|-------------|------------|------------|-----|
| ggctttgaat  | aatTTTTtact | cattatatca | tttatcatag  | cataacagcg | tacattccaa | 60  |
| aaaggaaggc  | ccaacataaa  | ctgagaaatt | gaatagatac  | atccataatc | cctttctatt | 120 |
| ctaattccata | cacaaatatt  | ttatcataat | ggTTTTtagaa | gtgaatatta | tttctatatt | 180 |
| cTTTTccac   | actTTTtact  | atatacata  | gacactttcc  | taaaattcat | aaaatcttca | 240 |
| catgtaacaa  | cagcaagtgc  | tgtaaggaac | agattacaag  | ctatctaatt | ggaagatcat | 300 |
| gtagtaaaat  | gatgcactaa  | aatatggttt | tccagcctaa  | gttctaaaca | ctacagcaac | 360 |
| cTTTaaattt  | tctcaataag  | cccactagt  | gtagcattcc  | atttactctt | tatggaaaaa | 420 |
| gangtctaac  | actggcagtt  | ggctTTTggc | atatgaattt  | ctctgaatca | aggctgaagt | 480 |
| gctTTTtgca  | nggaaaaggg  | cccgatttaa | taatttcata  | gggaaatggg | cttaagaatc | 540 |
| aggnttacca  | tgggtntggg  | at         |             |            |            | 562 |

<210> 10430

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10430

|            |            |            |             |             |            |     |
|------------|------------|------------|-------------|-------------|------------|-----|
| cactttccca | cTTTTtatta | ttcaacacat | ggaaggggggt | ggagacacaa  | ggatagggca | 60  |
| atggtgagtt | tcaataaata | agagaaacag | gatggacagg  | cagtgggccc  | atgcctgcac | 120 |
| ggccccacat | aaataaccag | gttgctgagc | cagagtggaa  | gtcagggctg  | ggcctggcag | 180 |
| ccgcctgcac | tgcccagaag | cactggcacc | acagggacac  | agaaaccact  | gaggcccaag | 240 |
| gtgtgctcca | gccccaccaa | gtcttctccc | taaagctcct  | gagatotttg  | ggctggctgg | 300 |
| gcaggctagg | gctctgtatc | acagtcctgc | tgggatcaag  | totatttttt  | cagtttcatt | 360 |
| aaaaacagct | gggggagggg | caggcacatg | cattaagccc  | cttccgtagg  | cagagccatg | 420 |
| gatggacaag | ccccatgggg | gcctttgaag | gcanaagccc  | tgggaagcaca | aaaacggggc | 480 |
| ttggataaag | cttctaattg | gaagggatgg | tanagcccaa  | nttcccaatc  | cccaaaacca | 540 |
| anccagaanc | tncaaagag  |            |             |             |            | 559 |

<210> 10431

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10431

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ctaatttata | cattttaatt | ggttgcatat | attaacatgt | actataagat | tctttttctaa | 60  |
| gaagcattac | ataataaatg | gatactgtaa | aaagatctga | ttagttaaaa | gtaacaagca  | 120 |
| ttaacagata | gatacataca | aaactcagcc | tgatcagact | gggtgtgagc | ctgtaatggg  | 180 |
| gcatggggca | ccagccttcc | caaggggtag | cctcaaggag | ggaggggaaa | gggggggtaa  | 240 |
| aaagaccaca | agaccaataa | aaaaaatcag | ataattagac | acagattaac | tgtaaacagt  | 300 |
| tctctctctc | tccagtgaac | aaaaagaata | agcttccaat | gccaactcca | tatcagaatg  | 360 |
| acttccaccg | ctggcttgct | ctgctgccat | actcgcgggc | tcatgtgggt | ggcaggcaga  | 420 |
| ccccaaggag | ccatcacggg | caanggctgg | agttggatta | cgtcagatct | ggngngtgg   | 480 |
| tgtgtgtnaa | aaaatatgtg | ggnggaactg | ggnttgaagg | ggntttcttt | tgg         | 533 |

<210> 10432

<211> 556

000220.69462960

<212> DNA

<213> Homo sapiens

<400> 10432

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| gaagagcaaa | tatTTTTatc | tttgaaagca  | aaagccttag | taacaaaaaa | gatccacaat  | 60  |
| ttttaagctt | gaaaaagcct | ttcaaaaagat | ctaatacaga | atttccaaaa | accagtacga  | 120 |
| ottgcaagac | attctgtgga | aaaaagtttt  | gtgaccaaac | agatttgga  | actgtcacag  | 180 |
| gtaatgctat | tctccttcca | gatttccaca  | gcaccgggca | tattagaagc | tctgagaagt  | 240 |
| tttgccataa | agatacactc | taaccatgtg  | tttcctttta | aggaggaaac | tagaaaaggag | 300 |
| gtgacacatt | gaggtcacac | agagtaccac  | atctgtcaaa | ggaaagatca | acaggcaatg  | 360 |
| tcaaatttta | aggagaatgt | gactcaagga  | agttcttgaa | ggacaatata | tataaaaatg  | 420 |
| taattattca | accgtaagca | gaattatgtt  | cagtaagccc | cttaccaatg | ctactacaaa  | 480 |
| atggaatgaa | ctattatctt | aataattctt  | taaaccccg  | tttttaaagt | gtaaccccaa  | 540 |
| ggggccaaaa | cctggn     |             |            |            |             | 556 |

<210> 10433

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10433

|            |            |             |             |            |            |     |
|------------|------------|-------------|-------------|------------|------------|-----|
| aaaacattaa | gcctctgtca | aaaatgtatt  | tcttattttta | gggtacagga | ttaaaggata | 60  |
| agatgatact | cacaagtaaa | gaaaattttac | aagaaaaaac  | ttaacaaaag | tttcaataaa | 120 |
| agtattgcaa | cattcaaact | tgacttataa  | caaaagaaac  | aagattgcaa | acaaaaatgt | 180 |
| ttacgggggt | tccaaacata | aataaatgaa  | atagtgttta  | ggcagtaggg | ctcatgctga | 240 |
| tggttagcag | gaagttaaca | gagtgttaact | tacctggaaa  | aaatctttta | tgtacaaata | 300 |
| acaagcccaa | attatggact | gcagcaattt  | aatcatcact  | gccatttttc | ttacttccaa | 360 |
| aataaagcct | tgattaaacc | attcataccc  | tatattactc  | atacctttac | ttcagagatt | 420 |
| gaggaactat | atacaacaaa | ttaattttatt | ttcaccatag  | ggataacata | ctgnacctct | 480 |
| ctgccaatgg | tacttgaaaa | tcttccatgt  | caaaacaact  | tgacagtaga | tntaaccatt | 540 |
| caataaatat | gccatggacn | tt          |             |            |            | 562 |

<210> 10434

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10434

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| gaagaacagg  | agataacagt | ttattaatat | ggcatagagg | gaggtggtgg  | tggcagtttt | 60  |
| tgatggagac  | ctgttaaaat | gctgatagga | gagagacggt | ggaaaggaga  | gtagcatagt | 120 |
| tgtttgaaaag | catgaatctg | cagtctgggt | gcctgggttt | tgaatcctag  | ctctataatt | 180 |
| gctaggttat  | cctgaggaag | tcacttgccc | tcatagggtt | gtgaggattg  | ttagatcaaa | 240 |
| ttatcaagaa  | tacttaaaat | atgactggtg | aggtggtgag | gtcaaactct  | agccctgcct | 300 |
| gagcatgcat  | atactatact | gctcccacct | gcccttggac | tgcccttccat | atctaaaatg | 360 |
| nattcattct  | tcagattcca | gctggcttgn | ctcactgccc | ctcaggaacc  | cctgctttca | 420 |
| acaactaatc  | aagnggatag | actttatggt | cctctcttnt | agcaatgacc  | ancctccctg | 480 |
| ctntgaggca  | tacaagcctt | tcctttttta | ncctccggac | ataccccca   | atttgnccct | 540 |
| tccaccttcc  | tanaatango |            |            |             |            | 560 |

<210> 10435  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 10435  
gtggagaaaa aaaactttat tgggtattaca gcaaaaaaatt cacataagat acataaatta 60  
tgataacctca aagctagagg caaataaaaat acaccttaatt atacaaattc tatacaatta 120  
aatcaagaac attaggaaaa tttttttgca aaaatgtcaa aaaaaaagat ttgatctggt 180  
cgggtatagt ggctcacacc tgtaatccca gcactttggg aggccaaggc ggggtggatca 240  
cctgagggtca ggagttcaag actagtctag ccaacttggg gaaaccccat ctctaccaa 300  
aatacaaaaa ttagccagggt atggttggtgt gtgcctgtaa tcccagctac tagggaggct 360  
gagccacgag aatcgcttga acctgtgagg tggaggttgc agtgagcccg agatcgcacc 420  
actgcagccc agcctgggcg acagagtaag actcatctca agagaaaaaa aaaaaggatt 480  
tgatccaacc caganttcng aaaaaccaa cccaaaaccc tgggactngg tacattatta 540  
aatnngggac nccgnnaaaa c 561

<210> 10436  
<211> 574  
<212> DNA  
<213> Homo sapiens

<400> 10436  
gattttgagg ctgagttaat atttcaaaat tgtaaccgta gcaaaaactgc attggtattt 60  
agaaaaataa aaaatttcca atatgtatgt ctgtgttata cctgcctctg ccatgcagca 120  
tcatagcctg tgggaaccag gagggcttcc cttaccaccc agagcagagg aggaagggtga 180  
tggaatatgg ggtgagggga ggaacctggt ggcccctccc tgagatggcc agaaagccct 240  
tggcctcacc tgggactgac caggcagccc tagtctaggc acaagggtgcc ctttcaccct 300  
tcatggctgt gggaatatit cctcttactc tttttctccc atacagctac tgccaaaatg 360  
cccaaacttg ggccaaatgt tgcccaaact tgggccaanaa atgttgccca agagaccnaa 420  
ancagaggaa aacaggttcc aaatctatgg agatcatgag cngaaatctt gangctttga 480  
ataaagggtc taaaagggtc ggaactcttt gggngggcca aancanacgc ccattcccaa 540  
gggctttcat tggaatgggg ggnaaggctt gttn 574

<210> 10437  
<211> 562  
<212> DNA  
<213> Homo sapiens

<400> 10437  
gaggatatttt agtaacctac tttttatttt tactttttaca aaagcttttg gttggtgaaa 60  
aattaagtaa totaggcatg atttatggga tgcaggagga tgtggatagg ttacatgcaa 120  
atgtcctttt ataaaaggaa cacagcatct gtggatttag gtatgcttag ggggtctgga 180  
accaatcccc tgcatatggt taggggataa ccatattcaa aagaaacatc ttaaggcttt 240  
accatgtgtt tgcatcatg aggccttatct cctatgtgat ttctttcacg tttctgaaat 300  
gaaataaaat taatgaatgc ttttcacat ttatagagta tctctccagt gagtcctttt 360  
atgtctatgc aagggaactga gagaactcag tgccttccca cattccttac attcatgcat 420

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| cttctcttca | gtggtgagtt | tttcatgtcc | togaaggaaa | cogagaacca | ntggaagctt | 480 |
| tancncattg | gtgacattca | taagaattcn | tttccagggg | gaatcnttca | tggtcccaaa | 540 |
| aggcaanggn | ccccaaaaa  | gc         |            |            |            | 562 |

<210> 10438  
 <211> 552  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 10438 |            |            |             |            |             |     |
| cagtttgtgc  | gtgtcacttg | aatcagaaac | caaacacatg  | taaaaaaata | tcacccctcaa | 60  |
| tgccccccat  | taactctctc | tccagaaggt | gacaatgtta  | gtgaactcaa | gactctcact  | 120 |
| gatgatggta  | ttttacaatg | aaaacacaag | gaaacccttt  | gaggtccaat | tttcacatca  | 180 |
| tattctccaa  | atagtataat | agcagctcta | catgtttgatg | aaaagaaatt | tcaatttctt  | 240 |
| cctatttgtt  | tttactcata | tcaacattaa | tatgtatctg  | gatttattaa | tttccaaaaa  | 300 |
| gaaaatttta  | gttaccacaa | atttcagaaa | tttaataaag  | cattacatat | atgtaattag  | 360 |
| cacttatcta  | ccaaaaaaac | atatgtgtat | gtatttattt  | atcttacctt | cactgaagtt  | 420 |
| cttttttctg  | gctggacatg | agaaacagga | ttaagtgatc  | aatgctggct | ttatttcttc  | 480 |
| ataagcagta  | atttgggnct | ttttcattca | acacacgcag  | catttcataa | taaattccca  | 540 |
| aaggccattc  | ct         |            |             |            |             | 552 |

<210> 10439  
 <211> 538  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 10439 |            |            |            |             |             |     |
| aaaaaaatgg  | tattttatta | taacttttaa | aattgcggaa | catcagactg  | aatatcatca  | 60  |
| gacacataca  | caaaaccact | catctctaaa | gtcattttct | ataccctctc  | aaaatttggc  | 120 |
| cagttagttt  | tgccctcagg | aattttccag | ttcaacccca | tacaccaaca  | tggaataaat  | 180 |
| ggaaacacta  | gccttttggg | tttgccca   | gttccaaagt | gctattacag  | goggaatata  | 240 |
| tgctgcagga  | ggctattctt | gctgctgtgg | gtgtgagtaa | aatgcttagt  | tcctttctaaa | 300 |
| atcataattg  | caatatggac | ttctgcttca | cgctgcaccc | taaggcacaa  | atcaggtaac  | 360 |
| ctacatctcc  | caaagtatca | acagagcact | ccatcctatt | ttaccctcaa  | tgctgagaaa  | 420 |
| ttactcctgg  | gcccagaagt | tgtcacatag | gtggcttggg | ntacttgggtg | ctcangcaca  | 480 |
| actgggcaca  | nggcccact  | tggtgacaca | tcaattcntt | naatatgtga  | tinctanaa   | 538 |

<210> 10440  
 <211> 523  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| <400> 10440 |            |            |             |            |             |     |
| ataaaaacag  | acaatcaagc | gtgacattta | atggagtttag | ttattattgc | ttctattttag | 60  |
| tatcatcaca  | gattactcat | cgctgccatg | aagtccataa  | aatgtgtgac | tacctgattc  | 120 |
| ctgggcatct  | aggacagggt | cttttaacct | gtcaagtcag  | tttcattatg | gccaaatttc  | 180 |
| tagcagtggg  | tggggatggg | gagaggagag | ctttgatttt  | tttgtgtgta | gaagaacttt  | 240 |
| ccataagcct  | gtttggctca | tggacatatt | ttacaatgta  | acctccctca | gtcactcaga  | 300 |

00629469.072800



|             |            |             |            |            |            |     |
|-------------|------------|-------------|------------|------------|------------|-----|
| ggggatcaag  | aagggccccc | taaaaccagg  | aggacagatc | tagttgggca | gcaaaatctg | 360 |
| gctattttcta | gaaatgctcc | ctcttcctgc  | aactgagcag | ttgtccccta | caagccacta | 420 |
| aagcccccaa  | tctttacctg | ngaaccocatn | ttctgactct | ggggaatgcc | tgcanaagcc | 480 |
| tggtagggga  | caancogtca | aaagntgatg  | aaccntgctn | ggg        |            | 523 |

<210> 10441  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 10441 |            |            |            |             |            |     |
| aaaagaatga  | gttacattta | ttgatatggt | ttgtcatatg | ctttataaat  | ggtcaccctt | 60  |
| tgaacatgt   | attattacta | tttgggggag | agggggactg | ttcattttac  | aggggacaag | 120 |
| caagacaggc  | tcaaggaggg | aaaggacagg | ctcaaagtca | tcacagtgtg  | gggctggaat | 180 |
| gcagttgcc   | ttccttcttt | ctttttgcac | atcttcogtc | tctaggggtga | ggaggggtgt | 240 |
| aggcacaggc  | acccaagaca | gccgcggtcc | agccccggcc | ccacctgtgg  | tctcagtac  | 300 |
| gccccagagg  | ccccatcttc | cccacataat | gaggctgctc | catcctcctc  | aaagcccaga | 360 |
| cctatttcat  | aagccccaga | ccccaccttc | acccagggcc | ccaagagAAC  | agagctggag | 420 |
| acacttctac  | tcctagcact | ggatgccttc | tcccttctgn | gaactgtang  | tgggggggtg | 480 |
| gaaggcacc   | ctttaagcan | gctcgggggg | ctttgaactc | caagactctg  | gaaaccnnta | 540 |
| naaantggga  | agg        |            |            |             |            | 553 |

<210> 10442  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 10442 |            |            |            |            |            |     |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 60  |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 120 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 180 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 240 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 300 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 360 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 420 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 480 |
| nnnnnnnnnn  | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | 540 |
| nnnnnnnnnn  | nnnnnnnnnn | nnn        |            |            |            | 563 |

<210> 10443  
 <211> 549  
 <212> DNA  
 <213> Homo sapiens

|             |            |            |             |            |            |     |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 10443 |            |            |             |            |            |     |
| attaaacaaa  | tatttattaa | cgggccata  | aaaataatga  | agttactcac | actgagtcct | 60  |
| agtccattct  | gtttttctga | tttgcataag | caaaggctta  | agttctggag | ccaacccttc | 120 |
| agaggtcttg  | agaatgaatg | atgggtaagt | ttattttggac | aaccagaagg | acttttcac  | 180 |

|            |             |            |             |             |             |     |
|------------|-------------|------------|-------------|-------------|-------------|-----|
| acaactgaag | ccatthttata | atgtagaaat | ttctthtttcc | tattthtaagt | aaggaaagtc  | 240 |
| cattcttgag | aataatgttg  | ccaacaatta | aaacactctc  | aggatttggt  | acttggttggt | 300 |
| gatttatgct | gactccgcct  | tctgttatca | ttcgataccc  | tcggggacca  | tctggaatgg  | 360 |
| catttgcttt | gcggcaagta  | tctaggacac | ttgttccagg  | atcgagaaaa  | aattcagaaa  | 420 |
| atggagcttc | tttaaacac   | tctthtaact | cctgacagac  | tgaacctccg  | gggctthta   | 480 |
| ctctggggat | aaaggcttgg  | ggacccccct | tagcagaatc  | caatcthttt  | ggccatgacc  | 540 |
| agcttggtc  |             |            |             |             |             | 549 |

<210> 10444

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10444

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| gtacatcagc | atctthtaca | tattaaagga | gccatataca | agtctacagc  | cattgtacac | 60  |
| aggatggtga | tggctgggga | gccccgcccc | ccagtcctnt | gcagthttct  | caccgganaa | 120 |
| cacttgggga | gctgtcacaa | ggccaggggg | ggtccatntt | tgggcctgtc  | gtggggcagg | 180 |
| cagcaggtct | gcaaggactc | ctcagggcca | gtcctcactg | gaatcagggg  | tcaanagcgc | 240 |
| caggtctgcc | tgtgtctggg | tctcatcggc | aggctagtgt | aacaacgtga  | attaaaactg | 300 |
| ggcatattcg | catganaaaa | ctggagctgg | ggatggctcc | ctgagctggg  | gacctagaag | 360 |
| acgctgctga | cagatggggc | ccttcatggt | ggggcccat  | cctgaggtaa  | cgtgcaaccc | 420 |
| tgaggctggt | cccaacggaa | ggagacttht | ccagcagccc | cagggggccag | tcccacacag | 480 |
| acnggaattg | gaagcccttg | gcaacaagtc | angggaccog | ggaaggcaac  | cctgacc    | 537 |

<210> 10445

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10445

|             |            |            |             |            |             |     |
|-------------|------------|------------|-------------|------------|-------------|-----|
| ccggcaagaa  | atcatgttht | ttcacattcc | ccacccccacc | acctgagagt | cactthtca   | 60  |
| ccaagccctg  | ggcctgacag | gagggggcca | aagagggggg  | ctgcctaagg | cagggcccag  | 120 |
| acccccacagt | gtgggcctct | ggagctgtgt | ctthtactct  | gctgccgato | aatccccatg  | 180 |
| tctgaaatgc  | gcacactctg | gtcctthagt | agatgccata  | ggtgggctca | tgaactgtccc | 240 |
| tgtaccggtc  | caggtagcgc | aggggctgcc | ggtgggggaa  | gcgcttctgc | ttggggtggt  | 300 |
| aagggggcgg  | ccgcacgaac | tcaaacaccg | gctcccgcat  | gtccagaagc | tggtggaaga  | 360 |
| tgtagggtgac | ggagtcattc | cagcggcact | ggaagaagga  | caagccggct | ggagtcattg  | 420 |
| nttcttgng   | nttcttgnaa | aatcaaaaag | tgccgaaagg  | nccctggggc | nacttgatac  | 480 |
| aaggtgaagg  | gccgtcgtnc | ttaaaagaat | caatcggt    |            |             | 518 |

<210> 10446

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10446

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| agcacaaatc | cagthttaat | gttcaaata  | acagcaaaaa | ttatgatgga | tagcaattca  | 60  |
| ttctcactaa | aacacagcta | atacatgttc | ctthaatcat | gaaggtaaag | tggaaaaaact | 120 |

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aaatagtttg | atgaccttag | agaaatcatt | tattctctct  | tatactcagt | taaatgggag | 180 |
| cctggttatc | acaatagaga | tgagtaataa | tgaaggtaaa  | atgcctggta | aaatgcatca | 240 |
| cagtaggcac | ccatcttatt | atacacatgt | caataaaaaat | aagcatctat | ttttaagg   | 300 |
| aagaaaagaa | atgcttctta | ataaagctct | ggatgaacca  | tttatcttct | ttcaaaaaat | 360 |
| gtaaaaacac | ataaaaaagc | attatctgac | aaagaaaagt  | agaaaagatt | tttatcttta | 420 |
| attagagttt | gtagtataca | cttaactttc | tgtaatctgc  | agtgatgaat | ctctatgtaa | 480 |
| acattcagaa | aaagagcgaa | tactgggtca | tgacttatga  | actataaatt | ttggcctgga | 540 |
| tactaggcca | gnacnggttt | ataccttn   |             |            |            | 569 |

<210> 10447

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10447

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| aagttactgt | aggacttcaa  | agaactttta | atttgctcac  | gcatactcca | aagattttat  | 60  |
| aaaaaaagta | tttcttaaac  | ttagttataa | aaagaaggat  | tccataggca | cgaggacccc  | 120 |
| agtgaacaag | ttttgggaag  | tgctgctcca | cgggtgggccc | ataagagtct | tgtaaagata  | 180 |
| gaaaagtagg | ccccaaaaac  | aaactctttc | ccaccagcca  | tcagttacta | tottcaaaaac | 240 |
| tgcaagtgtg | gctcaatgtt  | gtcattctgt | actctcctgt  | cttcagcagg | gtttatggta  | 300 |
| tttttccact | tgctgggtcaa | atctcctgga | agaataccct  | gccttgaaaa | agttcactgg  | 360 |
| agtcagaaga | tatttgagtg  | ctagaccctt | gaattcagta  | gctagaanan | gggtgccott  | 420 |
| gctgctgtgg | gacaggggag  | aacctatgnc | catccaggca  | ctctgattcc | tggggnttct  | 480 |
| ggcctcatca | tcatcttcca  | tgggtnccaa | gggggaccct  | aaaccaattt | cctcccgggt  | 540 |
| ttttgagaaa | naaacc      |            |             |            |             | 557 |

<210> 10448

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10448

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| cagggccaaa  | acgttttact  | ttccatttga  | atttacaacc | atatacagac | aatatggtaa | 60  |
| gatttttagag | aaaacagatc  | atcactacga  | atatccatat | tctgatttct | tttgagaacc | 120 |
| aagggtgcctt | ttaaaatgcg  | gcttttttaga | atagcatgtg | ttgtttctgt | ctgggatcta | 180 |
| gatcttgtct  | gctacaaaac  | aatgaacac   | accctgtgta | acaaaatoga | attttaacat | 240 |
| ttaaatcttg  | attccaatat  | tcctgacctt  | tctcttgtca | tatgaaagaa | agaagccttt | 300 |
| ttttaaaaca  | aagtttcaat  | tcagaatttt  | tacaaacaaa | aacaatcctg | cgtctactta | 360 |
| atatccctgt  | atatcctcaa  | aaagcaagtt  | caggaaattt | aaaaatgatt | tataaaaggc | 420 |
| actgaagtta  | gcaaaaagcat | tggtgggttt  | tcatttttga | ttaaacactg | gaaatgttca | 480 |
| cagagaaaca  | actgtgtgag  | ccagttgccc  | gtaacaccca | ggaagaacog | nottcaggca | 540 |
| gcacctctgg  | acacttagcn  | g           |            |            |            | 561 |

<210> 10449

<211> 519

<212> DNA

<213> Homo sapiens

005240 69462960

<400> 10449

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| gctcttagaa | tagactttat | tgacttttagc | caagggcagg | ccctgagatg | ggggtccaga | 60  |
| gagagaggct | tggtggggct | acgtcctggg  | ggccagggtg | gttctgaggg | gtagaaggcc | 120 |
| atccacccat | tcgcacggct | gctccaggag  | ggcttgccac | agctgcttct | cctcagggtg | 180 |
| ggaatccatc | cagggcacct | gcagcccata  | gctgctgccg | gtgcccaggc | tgaggcgtgt | 240 |
| gccccccagc | tggcggtttg | ccagggcccc  | atgggtccag | agggagagct | cggcacaagc | 300 |
| ctggcgagg  | tcagcaggcc | caaagccatc  | gtacaccatg | gtgtgattga | acacagggtg | 360 |
| gaggctgcgt | cgcacaaccc | ttgtacgctg  | gcggctggcc | tggtgtcat  | cangcagcac | 420 |
| gaagcattgt | acctaagtgt | ccanggatcc  | tgccgcaacg | gcangangtc | ccgaacctct | 480 |
| ttanccaaaa | tcagnttcc  | cgtttggggc  | aanncttgg  |            |            | 519 |

<210> 10450

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10450

|            |             |             |            |             |             |     |
|------------|-------------|-------------|------------|-------------|-------------|-----|
| aacagtcaaa | gtgcatttta  | ttgccaacag  | aacacttcag | gaggaaatgc  | taacacaaaag | 60  |
| ccaaggcgct | ggtgctggct  | cattttttgct | cctcctgacc | ttggccagta  | tttgggtangc | 120 |
| tttccagagc | acaggggtgaa | aggctaaagg  | gctaggactg | gggtgggggg  | agcaggaggg  | 180 |
| catggcagct | gctggctctg  | tcctcccagc  | ctgggtccac | ccntcctgcc  | gttctccttg  | 240 |
| ggctcaaggg | acacacattc  | gttcaaattct | gacgggcaaa | gccagggcct  | agcccactct  | 300 |
| agccgcaggg | tcacctccct  | gagggccctg  | gtccagcacc | tggtttttctg | ggctttttct  | 360 |
| ggctganctg | gagggccctag | ggccaagccc  | actctccgga | gggttgga    | ccaccnttn   | 420 |
| aggtggncan | tggggcnccg  | ccanaacggg  | gga        |             |             | 453 |

<210> 10451

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10451

|            |            |            |            |            |              |     |
|------------|------------|------------|------------|------------|--------------|-----|
| atacctttta | ttttcgttct | gttgaatcta | cattatacct | cacattctct | tcctatatattg | 60  |
| atagccttta | tatacctctt | acaaatcaaa | gctataagac | tatattaaag | aaattatgaa   | 120 |
| aaactattac | aattgttttt | tcatatgcaa | gatggcacta | gcattctccc | cagaaaggga   | 180 |
| aggaagaaaa | ggtctcattg | tactttctct | tgaattctcc | tttaggggag | aaaagtagaa   | 240 |
| cottacagct | gccagcaatg | caaatcttcc | cattcatgga | atctgggaga | agaatatgtt   | 300 |
| ctttataaat | tcacatgaga | caaagatgcc | aaccagatgc | actgattgta | gaggattata   | 360 |
| ttttattcaa | ggtgacaatt | aggccttata | aacctccctg | ataatctata | aaaatataaa   | 420 |
| cagtggtagg | ttttattttt | aagtgggaga | agtcttggct | aggtggatgg | tgagaatcac   | 480 |
| aatggaagg  | aatattaagt | taccgggaat | ataagtttgg | aacnttgaaa | ggactttttt   | 540 |
| ataggacatt | ttaagaaggn |            |            |            |              | 560 |

<210> 10452

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10452

|             |            |             |            |             |             |     |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| gagagacaat  | aggaatTTTT | aatgcatgga  | caggcctgca | gggactctgg  | gcagacccac  | 60  |
| aggtagcagg  | aagaggcagg | gtcccacaaa  | ctcaataatg | tccagcaaaa  | aagagagaga  | 120 |
| agtccTTaaa  | gacccatgct | tcctcaactgc | aaccatcctc | agagcttcct  | tcctgggtgct | 180 |
| gaagaggTca  | aaactgtctc | ctctaggggt  | caggTcaaaa | ctgtccctcc  | ataggtctcc  | 240 |
| tccaggggtc  | catggcagga | agaaagcaga  | gtgtggcagg | aagaagggaag | aagagcaaaag | 300 |
| gccgcttggT  | ctccacctga | aaactttctgc | ctcgggattg | acagccatcc  | ataagaaaag  | 360 |
| gtttaaaaaag | gagagacttt | tgatagagtc  | aaataatatg | tgtttcgggc  | cattgacacc  | 420 |
| atcttctcct  | nacacgtgat | tttggtggcc  | ttgaggatgc | tataccacac  | catgccttgc  | 480 |
| aggccggacc  | ttcttggttg | gggcagaaaa  | gataggcact | ggtttcaccc  | ggnTntggat  | 540 |
| gtaggcncct  | ccnagga    |             |            |             |             | 557 |

<210> 10453

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10453

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| ccagtttttg | agagtttatt | ccagcaaaaa  | tctgagaata | gtcatccaga | aacatgggct | 60  |
| ccagagaaaa | ggagtaagtg | ctccaaagtt  | aaaagttaaa | gtcccaccag | gcatggnggc | 120 |
| tcaatgttag | tttttatcct | taaaattgcc  | tgagttctta | gaacacagaa | aaaacaaatt | 180 |
| tgaatgcatt | tctaacagct | taataattta  | tatgtcccat | tatgatttta | gcggaatgtt | 240 |
| ttaaagcaaa | gcataattca | ctgcaaagat  | aaacctgaaa | aagcaaaaca | acttacaatt | 300 |
| ggtatgttat | gacctagaca | aaactgatta  | tcaactagta | atactcataa | ttagcacatg | 360 |
| caacagattg | agaaattaaa | tcctgngcta  | tatactctta | agtattttgt | cagatatatc | 420 |
| tttaaatgtt | ctatcaattg | catttcctttc | cacacatatt | ttaaacagga | aaacaatggc | 480 |
| tttcctccan | atctcaaggt | tatcaggcaa  | aacgtgcaat | ctcgtaaaaa | tgggtatttc | 540 |
| catggtntt  |            |             |            |            |            | 549 |

<210> 10454

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10454

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ccttttgtat | taacttttat | ttacctgtta | atgaaatcat | caaaatacaa | tgagtaggca  | 60  |
| ccttctatgt | acatctgtcc | tagtgctttt | gagtgTTaat | ctaaactcat | acatcaacaa  | 120 |
| acattctagc | cggacaagta | ggtggctact | cagtccatta | agaaacttaa | ttactagttt  | 180 |
| ctagtagcct | taaagtctca | tttaacattt | aacaaatcaa | agagcatgtc | agaggctgga  | 240 |
| catcaatggc | agatgatgcc | aaagtcatag | ggttttgcct | ttgtgtacag | tgcataaggct | 300 |
| ccaaagcatg | acctgcacgt | cttgatactc | aggaatTTTT | ggaaaaagaa | aatcacactc  | 360 |
| tttggccact | tttaaaaagt | gaaaaggtag | agccttcatt | accctagtag | agcttaacct  | 420 |
| aatncantnc | aatgaaccaa | ncnggaagaa | nggcatnttt | acaaaccctt | ttcaaaaagtc | 480 |
| attggccagc | t          |            |            |            |             | 491 |

<210> 10455

<211> 558

<212> DNA

008220" 69462960

<213> Homo sapiens

<400> 10455

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| agataaaatt | aaactgactt | tattaaacag | agtcacttca | ggcctttttc | ttatgaacag | 60  |
| agtgatcctt | agtcgggtaa | catgtcaatg | acagtgcact | ctgtgcctct | cctgcattgt | 120 |
| ggggaggcca | cttcttaagg | caaagtaaaa | ttcaggacct | gcatgaaatc | agttttgctt | 180 |
| ccatttgagt | tcgatttatg | ctattaatag | ttctgatcac | caaatttata | acatttaaag | 240 |
| tactgtctgt | tacccgatgt | ctggatatgt | tacataaaac | gtggttctgc | ccagtaacag | 300 |
| cattaagggt | aaaaatgggg | atttccccta | aaattattac | catcatgtca | tcctagagtg | 360 |
| gtaccacact | gggagaggtc | caaaaaacaa | agcattagat | ttcaggctaa | gaacagccag | 420 |
| ttttaggagt | aagaattaca | tcgaatagcc | ttaagagcct | ttaaaaaggt | caaggcttct | 480 |
| taaacttcag | aatgaaacc  | aaaccaaacc | aaaccaccnc | caaaaccaac | ctaccaaac  | 540 |
| ccaaaacttt | tggngcca   |            |            |            |            | 558 |

<210> 10456

<211> 484

<212> DNA

<213> Homo sapiens

<400> 10456

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| caagcaaaaa | attattcttt | taatacagct | tttaccaaaa | cagttttaat | acatgagtgg  | 60  |
| ctacaatttt | attgtgtaca | caatgtgctt | atagtcacat | gtggcccaat | ggatcccaat  | 120 |
| gcctcctctg | gctcatgaaa | tcccatgtac | ttcacaatct | agcctaactc | tgtatatgca  | 180 |
| taaaagccac | tggtatactt | tttacagaca | tctttgtata | atagtccaga | aaaaaaaaatc | 240 |
| agtggactct | aagaatgttt | agacaatttg | acatctacgt | ttgctttctt | ttcttttcag  | 300 |
| tagtccttct | gatgattggg | ggcctttatc | ccatagggtt | atactgttaa | aacagtacat  | 360 |
| aaaattacat | ttagctttgc | ctagagtaat | agataaaaaa | gggtaaatca | cacattttca  | 420 |
| agaagcttga | gaggnaaaaa | attgcagcat | cgnggnttta | aaaaactnnt | taagcnngaa  | 480 |
| aatc       |            |            |            |            |             | 484 |

<210> 10457

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10457

|            |             |            |             |            |             |     |
|------------|-------------|------------|-------------|------------|-------------|-----|
| gagcattcca | aattttattcc | ctttaagtaa | acctatagcc  | actacatatg | tccttgacaa  | 60  |
| ttagaacaga | aaacaaaaaa  | aggacaaata | gaaatacttt  | ccattctgtc | tatatagtag  | 120 |
| tagttttggg | ggtatagata  | gtaaacacta | gtcaagaata  | ctcgtctaaa | tatgttggtg  | 180 |
| aaatgtagtc | atcatttggc  | atgtgttttg | ctttgggtata | taatgaagtt | gagctatccc  | 240 |
| atctttcttc | tctatggaat  | atagtcacac | aaacaaaaaa  | gatgaatctc | actagagggtg | 300 |
| ggtctttatc | agaaatatgc  | cccaatctag | ttaggtaata  | gaaagaaaat | cattttctcc  | 360 |
| tcctaggcct | aagattcttc  | atgtaaaaat | tataagactg  | aataaagatc | acttctaagt  | 420 |
| ttctataatt | catgtagata  | tatcaattta | tacatcatga  | tgtagacaga | cagcaagggt  | 480 |
| atctttctgg | ctccatgatg  | ctaggcttgg | ccacatgact  | tgcttaaagc | accgtatgga  | 540 |
| tacatgcac  | tt          |            |             |            |             | 552 |

<210> 10458

<211> 544  
<212> DNA  
<213> Homo sapiens

<400> 10458  
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tcttgggctc tcaatgcaat agaaactgac atggggccaa aagacttccc agacaaagca 180  
cgcgaaaggt agaggatata ggtagcatc atctggttgt gatgatcatc tcgagtaatg 240  
ggccacctgg tggctcggcc agcggcaaca aggctgtaaa tcaattaatt attcagcatt 300  
ccctcccaag atgggacact ctgcaatctt ggttccctat ttggatctcc taaggccagt 360  
tcctggaatt gtttaagtaa aagacatggt taagcattat gagagcacag aagaacaata 420  
cagaaaggcc atcttctttg gatgactaaa gccctnaggg tagcangtat ngnggcaatg 480  
aagnaatant attgggggttt gggatcagtg ggaatgcntg aaaaaaagct ctaatggggg 540  
tgaa 544

<210> 10459  
<211> 135  
<212> DNA  
<213> Homo sapiens

<400> 10459  
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tgcatgccca cagaagagcc ttcccgcttc cctccaccat gtcccccttg ttgggggggg 120  
ggaagggggn nnnnn 135

<210> 10460  
<211> 563  
<212> DNA  
<213> Homo sapiens

<400> 10460  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540  
nnnnnnnnnn nnnnnnnnnn nnn 563

<210> 10461  
<211> 553  
<212> DNA  
<213> Homo sapiens

000220.69462960

<400> 10461

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| caacccccac  | ctcctgggtt | caagcgattc  | tcctgcctca | gcctctccag | tagctgagat  | 120 |
| tacaggtgcg  | caccaccacg | cccagctaata | tttgtatttt | ttagtagaga | cagggtttca  | 180 |
| ccgtggtctc  | aaactcttga | cctcgtgato  | cgctgtctc  | agcctcccaa | agtgcctggg  | 240 |
| ttacaggtgt  | aagccactgc | gcccagccag  | taattcttat | caaatgaaaa | atgatcttca  | 300 |
| ttcacaaatga | ctgaccaaac | ttctgagttt  | ccttcagtta | atttcaaatc | ctgaggtcaa  | 360 |
| aatcaccaat  | gacttttgct | ccttggtctt  | caaagtggga | catatcatca | aatggcccat  | 420 |
| atacncaaaa  | tttacattat | agacaaatnc  | atatttgnca | tatgttngaa | gcctnattcg  | 480 |
| tgatttatag  | gatttaaaca | ncntaggctt  | ttcttaaaag | ggatctgaag | tcaatagggt  | 540 |
| nactccacct  | tgc        |             |            |            |             | 553 |

<210> 10462

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10462

|             |             |             |             |             |             |     |
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| gagacggagc  | ctcgtctctgt | cacccagggt  | ggagtgcagt  | ggcgcgatct  | cagctcactg  | 60  |
| caacaacctc  | tgctcctctg  | attcaagcaa  | ttctcctgcc  | tcagcctccc  | gagtagctgg  | 120 |
| gattgcaggc  | atgtgccacc  | acgcctggct  | aatttttttg  | tatttatagt  | agatatgggtg | 180 |
| tttcaccata  | ttggccaggc  | tggtctcaaa  | ctcctgacct  | tgtgatccac  | ctgcctcaac  | 240 |
| ctcccaaaagt | gctaggatta  | cagggtgtgag | ccactgcgcc  | cagccaatta  | catttttaat  | 300 |
| aacccgaata  | ttacagatca  | tttcacagtg  | tccttgccac  | catttatacac | atcatatcat  | 360 |
| taggttcaac  | atattttgac  | ttgttggcct  | tgccacacac  | aatccatttg  | tgtggtttca  | 420 |
| ccaaagatga  | atgtttcgat  | gtctagtgtat | ttggtaagggt | ctcgatcaag  | cctggggccac | 480 |
| atatagtacc  | atttaaanga  | ttcttctaana | atagactttc  | ggatgtgata  | ctggtttnaac | 540 |
| tatgataaag  | ttggccaact  | aattgt      |             |             |             | 566 |

<210> 10463

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10463

|             |             |            |             |             |             |     |
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| gntttttcca  | gaatttaata  | tttttaaaaa | gacagaaaaat | ataaaaaatta | ccaaaaaaaat | 60  |
| gttttaaagg  | tcatttttgg  | gctaaatact | aggactgaaa  | ctctttttct  | gtaattgatt  | 120 |
| tatggtaaag  | agtaaaaaata | atataaaaaa | cacagcagtt  | atagctgtcc  | aaatgaaagc  | 180 |
| ctatctgcaa  | aaaggcagga  | caagggtggc | tgactgagca  | aatattcaca  | tcacgacctt  | 240 |
| agtaataaat  | ttcaaatgggt | ttcagttccc | aagatctgaa  | aagagaatca  | totttgcacgc | 300 |
| ttagattcca  | cttcttcaag  | aatccactca | atgccattca  | aaaaaccagt  | cagagtttca  | 360 |
| gcctctgtat  | cctggaccag  | ccatgggtga | tttagaagat  | tcagacgcag  | ctcatgagcc  | 420 |
| aaataaaaaac | agggcattct  | tttcatccc  | cttgagaaat  | ccagatnaaa  | cccaccatgg  | 480 |
| nccttccgaa  | aacccaaagg  | ctggaactgg | catggcctaa  | tntgagaaaa  | tcatnttggc  | 540 |
| atcangcttt  | atgacctcan  |            |             |             |             | 560 |

<210> 10464

09629469.072800



<211> 30  
<212> RNA  
<223> Description of Artificial Sequence: an artificially synthesized oligo-cap  
linker sequence  
<400> 10464  
agcaucgagu cggccuuguu ggccuacugg 30

<210> 10465  
<211> 42  
<212> DNA  
<223> Description of Artificial Sequence: an artificially synthesized oligo(dT)  
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<210> 10466  
<211> 21  
<212> DNA  
<223> Description of Artificial Sequence: an artificially synthesized primer seq  
uence  
<400> 10466  
agcatcgagt cggccttggt g 21

<210> 10467  
<211> 21  
<212> DNA  
<223> Description of Artificial Sequence: an artificially synthesized primer seq  
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<400> 10467  
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<210> 10468  
<211> 1881  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (108).. (1769)

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gctcccagcc ggcgacagctt cctggacgcc gccagctcgg gctggtgccg ttcccgcgcg 180  
cgccgcgcgcg gacgccgctg ctgtggctgc tgctgctgct gctggccgcc gtggcgccgg 240  
cgcgcggtctg ggagagcgga gacctggagt tgtttgactt agtggaggag gtgcagctca 300  
acttctacca gttcctcggg gtgcagcagg atgcatcatc tgcagacatc agaaaagcat 360

09629469.072800



-3972/13211-

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Leu Ile Asn Gly Leu Pro Asp Trp Arg Gln Pro Val Phe Tyr Tyr Arg  
130 135 140  
Arg Val Arg Lys Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile  
145 150 155 160  
Ile Leu Thr Val Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Glu  
165 170 175  
Lys Gln Leu Asp Glu Leu Leu Ser Arg Lys Lys Arg Glu Lys Lys Lys  
180 185 190  
Lys Thr Gly Ser Lys Ser Val Asp Val Ser Lys Leu Gly Ala Ser Glu  
195 200 205  
Lys Asn Glu Arg Leu Leu Met Lys Pro Gln Trp His Asp Leu Leu Pro  
210 215 220  
Cys Lys Leu Gly Ile Trp Phe Cys Leu Thr Leu Lys Ala Leu Pro His  
225 230 235 240  
Leu Ile Gln Asp Ala Gly Gln Phe Tyr Ala Lys Tyr Lys Glu Thr Arg  
245 250 255  
Leu Lys Glu Lys Glu Asp Ala Leu Thr Arg Thr Glu Leu Glu Thr Leu  
260 265 270  
Gln Lys Gln Lys Lys Val Lys Lys Pro Lys Pro Glu Phe Pro Val Tyr  
275 280 285  
Thr Pro Leu Glu Thr Thr Tyr Ile Gln Ser Tyr Asp His Gly Thr Ser  
290 295 300  
Ile Glu Glu Ile Glu Glu Gln Met Asp Asp Trp Leu Glu Asn Arg Asn  
305 310 315 320  
Arg Thr Gln Lys Lys Gln Ala Pro Glu Trp Thr Glu Glu Asp Leu Ser  
325 330 335  
Gln Leu Thr Arg Ser Met Val Lys Phe Pro Gly Gly Thr Pro Gly Arg  
340 345 350  
Trp Glu Lys Ile Ala His Glu Leu Gly Arg Ser Val Thr Asp Val Thr  
355 360 365  
Thr Lys Ala Lys Gln Leu Lys Asp Ser Val Thr Cys Ser Pro Gly Met  
370 375 380  
Val Arg Leu Ser Glu Leu Lys Ser Thr Val Gln Asn Ser Arg Pro Ile  
385 390 395 400  
Lys Thr Ala Thr Thr Leu Pro Asp Asp Met Ile Thr Gln Arg Glu Asp  
405 410 415  
Ala Glu Gly Val Ala Ala Glu Glu Glu Gln Glu Gly Asp Ser Gly Glu  
420 425 430  
Gln Glu Thr Gly Ala Thr Asp Ala Arg Pro Arg Arg Arg Lys Pro Ala  
435 440 445  
Arg Leu Leu Glu Ala Thr Ala Lys Pro Glu Pro Glu Glu Lys Ser Arg  
450 455 460  
Ala Lys Arg Gln Lys Asp Phe Asp Ile Ala Glu Gln Asn Glu Ser Ser  
465 470 475 480  
Asp Glu Glu Ser Leu Arg Lys Glu Arg Ala Arg Ser Ala Glu Glu Pro  
485 490 495

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<210> 10474  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 10474

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| Met | Ala | Ala | Pro | Pro | Glu | Pro | Gly | Glu | Pro | Glu | Glu | Arg | Lys | Ser | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Lys | Leu | Leu | Gly | Phe | Leu | Asp | Val | Glu | Asn | Thr | Pro | Cys | Ala | Arg | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Ile | Leu | Tyr | Gly | Ser | Leu | Gly | Ser | Val | Val | Ala | Gly | Phe | Gly | His |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Leu | Phe | Thr | Ser | Arg | Ile | Arg | Arg | Ser | Cys | Asp | Val | Gly | Val | Gly |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Phe | Ile | Leu | Val | Thr | Leu | Gly | Cys | Trp | Phe | His | Cys | Arg | Tyr | Asn |
|     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Tyr | Ala | Lys | Gln | Arg | Ile | Gln | Glu | Arg | Ile | Ala | Arg | Glu | Glu | Ile | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Lys | Lys | Ile | Leu | Tyr | Glu | Gly | Thr | His | Leu | Asp | Pro | Glu | Arg | Lys | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Gly | Ser | Ser | Ser | Asn |     |     |     |     |     |     |     |     |     |     |
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<210> 10475  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (4).. (1533)

<400> 10475

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 <212> PRT  
 <213> Homo sapiens

<400> 10476

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Lys | Asn | Leu | Phe | Gly | Lys | Tyr | Gly | Lys | Val | Leu | Ser | Ala | Lys | Val | Val |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Thr | Asn | Ala | Arg | Ser | Pro | Gly | Ala | Lys | Cys | Tyr | Gly | Ile | Val | Thr | Met |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Ser | Ser | Thr | Glu | Val | Ser | Arg | Cys | Ile | Ala | His | Leu | His | Arg | Thr |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Glu | Leu | His | Gly | Gln | Leu | Ile | Ser | Val | Glu | Lys | Val | Lys | Gly | Asp | Pro |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Ser | Lys | Lys | Glu | Met | Lys | Lys | Glu | Asn | Asp | Glu | Lys | Ser | Ser | Ser | Arg |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Ser | Ser | Gly | Asp | Lys | Lys | Asn | Thr | Ser | Asp | Arg | Ser | Ser | Lys | Thr | Gln |
|     |     |     | 485 |     |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Ala | Ser | Val | Lys | Lys | Glu | Glu | Lys | Arg | Ser | Ser | Glu | Lys | Ser |     |     |
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<220>  
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 <222> (197).. (1927)

<400> 10477

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| actcttcatt | ttctctgcac  | ttcaggtggc | aagacagctc  | cttcttcagc | agcaacagca | 120  |
| gcagcaagtt | agtggattaa  | aatctcccaa | gaggaatgac  | aaacaaccag | ctcttcaggt | 180  |
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| cctcatgctt | caacagcagc  | agcttcaaga | gttttataaa  | aaacaacagg | aacagttgca | 360  |
| gcttcaactt | ttacaacaac  | aacatgctgg | aaaacagcct  | aaagagcaac | agcgggtggc | 420  |
| taccagcag  | ttggcttttc  | agcagcagct | tttacagatg  | cagcagttac | agcagcagca | 480  |
| cctcctgtct | ttgcagcgcc  | aaggccttgt | gacaattcag  | cccgggcagc | ctgcccttcc | 540  |
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| gacaagtgt  | catactgcag  | aagaaaccac | aggcaacaat  | cacagcagtt | tggatctgac | 660  |
| cacgacatgt | gtctcctcct  | ctgcaccttc | caagacctcc  | ttaataatga | accacatgac | 720  |
| ctctaccaat | ggacagctct  | cagtccacac | tcccaaaagg  | gaaagtttgt | cccatgagga | 780  |
| gcacccccat | agccatcctc  | tctatggaca | tgggtgtatgc | aagtggccag | gotgtgaagc | 840  |
| agtgtgcgaa | gatttccaat  | catttctaaa | acatctcaac  | agttagcatg | cgttgacga  | 900  |
| tagaagtaca | gccaatgta   | gagtacaaat | gcaggttgta  | cagcagttag | agctacagct | 960  |
| tgcaaaagac | aaagaacgcc  | tgcaagccat | gatgaccac   | ctgcatgtga | agtctacaga | 1020 |
| acccaaagcc | gcccctcagc  | ccttgaatct | ggtatcaagt  | gtcactctct | ccaagtccgc | 1080 |
| atcggagggt | tctccacaga  | gcttacctca | tactccaacg  | accccaaccg | ccccctgac  | 1140 |
| tcccgtcacc | caaggcccct  | ctgtcatcac | aaccaccagc  | atgcacacgg | tgggacccat | 1200 |
| ccgcaggcgg | tactcagaca  | aatacaacgt | gccatttcg   | tcagcagata | ttgcgcagaa | 1260 |
| ccaagaattt | tataagaacg  | cagaagttag | accaccattt  | acatatgcat | ctttaattag | 1320 |

09629469 072300

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<211> 577

<212> PRT

<213> Homo sapiens

<400> 10478

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 20          25          30
Gln Gln Ala Leu Met Leu Gln Gln Gln Leu Gln Gln Phe Tyr Lys
 35          40          45
Lys Gln Gln Glu Gln Leu Gln Leu Gln Leu Leu Gln Gln Gln His Ala
 50          55          60
Gly Lys Gln Pro Lys Glu Gln Gln Arg Val Ala Thr Gln Gln Leu Ala
 65          70          75          80
Phe Gln Gln Gln Leu Leu Gln Met Gln Gln Leu Gln Gln Gln His Leu
 85          90          95
Leu Ser Leu Gln Arg Gln Gly Leu Val Thr Ile Gln Pro Gly Gln Pro
100          105          110
Ala Leu Pro Leu Gln Pro Leu Ala Gln Gly Met Ile Pro Thr Glu Leu
115          120          125
Gln Gln Leu Trp Lys Glu Val Thr Ser Ala His Thr Ala Glu Glu Thr
130          135          140
Thr Gly Asn Asn His Ser Ser Leu Asp Leu Thr Thr Thr Cys Val Ser
145          150          155          160
Ser Ser Ala Pro Ser Lys Thr Ser Leu Ile Met Asn Pro His Ala Ser
165          170          175
Thr Asn Gly Gln Leu Ser Val His Thr Pro Lys Arg Glu Ser Leu Ser
180          185          190
His Glu Glu His Pro His Ser His Pro Leu Tyr Gly His Gly Val Cys
195          200          205
Lys Trp Pro Gly Cys Glu Ala Val Cys Glu Asp Phe Gln Ser Phe Leu
210          215          220
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00629469.072800

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Ser Thr Glu Pro Lys Ala Ala Pro Gln Pro Leu Asn Leu Val Ser Ser  
275 280 285  
Val Thr Leu Ser Lys Ser Ala Ser Glu Ala Ser Pro Gln Ser Leu Pro  
290 295 300  
His Thr Pro Thr Thr Pro Thr Ala Pro Leu Thr Pro Val Thr Gln Gly  
305 310 315 320  
Pro Ser Val Ile Thr Thr Thr Ser Met His Thr Val Gly Pro Ile Arg  
325 330 335  
Arg Arg Tyr Ser Asp Lys Tyr Asn Val Pro Ile Ser Ser Ala Asp Ile  
340 345 350  
Ala Gln Asn Gln Glu Phe Tyr Lys Asn Ala Glu Val Arg Pro Pro Phe  
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Thr Tyr Ala Ser Leu Ile Arg Gln Ala Ile Leu Glu Ser Pro Glu Lys  
370 375 380  
Gln Leu Thr Leu Asn Glu Ile Tyr Asn Trp Phe Thr Arg Met Phe Ala  
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Tyr Phe Arg Arg Asn Ala Ala Thr Trp Lys Asn Ala Val Arg His Asn  
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Leu Ser Leu His Lys Cys Phe Val Arg Val Glu Asn Val Lys Gly Ala  
420 425 430  
Val Trp Thr Val Asp Glu Val Glu Phe Gln Lys Arg Arg Pro Gln Lys  
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Tyr Cys Thr Pro Leu Asn Ala Ala Leu Gln Ala Ser Met Ala Glu Asn  
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<400> 10479

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<212> PRT  
<213> Homo sapiens

<400> 10480

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Thr | Pro | Val | Gln | Asp | Glu | Arg | Asp | Ser | Gly | Ser | Asp | Gly | Glu | Asp | Asp |  |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |
| Val | Asn | Glu | Gln | His | Ser | Gly | Ser | Asp | Thr | Gly | Ser | Val | Glu | Arg | His |  |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |  |
| Ser | Glu | Asn | Glu | Thr | Ser | Asp | Ser | Glu | Asn | Glu | Glu | Leu | Pro | Lys | Pro |  |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |
| Arg | Ile | Ser | Asp | Ser | Glu | Ser | Glu | Asp | Pro | Pro | Arg | Asn | Gln | Ala | Ser |  |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |
| Asp | Ser | Glu | Asn | Glu | Glu | Leu | Pro | Lys | Pro | Arg | Val | Ser | Asp | Ser | Glu |  |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |
| Ser | Glu | Gly | Pro | Gln | Lys | Gly | Pro | Ala | Ser | Asp | Ser | Glu | Thr | Glu | Asp |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |
| Ala | Ser | Arg | His | Lys | Gln | Lys | Pro | Glu | Ser | Asp | Asp | Asp | Ser | Asp | Arg |  |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |  |
| Glu | Asn | Lys | Gly | Glu | Asp | Thr | Glu | Met | Gln | Asn | Asp | Ser | Phe | His | Ser |  |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |  |
| Asp | Ser | His | Met | Asp | Arg | Lys | Lys | Phe | His | Ser | Ser | Asp | Ser | Glu | Glu |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |
| Glu | Glu | His | Lys | Lys | Gln | Lys | Met | Asp | Ser | Asp | Glu | Asp | Glu | Lys | Glu |  |  |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |  |  |
| Gly | Glu | Glu | Glu | Lys | Val | Ala | Lys | Arg | Lys | Ala | Ala | Val | Leu | Ser | Asp |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |
| Ser | Glu | Asp | Glu | Glu | Lys | Ala | Ser | Ala | Lys | Lys | Ser | Arg | Val | Val | Ser |  |  |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |  |
| Asp | Ala | Asp | Asp | Ser | Asp | Ser | Asp | Ala | Val | Ser | Asp | Lys | Ser | Gly | Lys |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |
| Arg | Glu | Lys | Thr | Ile | Ala | Ser | Asp | Ser | Glu | Glu | Glu | Ala | Gly | Lys | Glu |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| Leu | Ser | Asp | Lys | Lys | Asn | Glu | Glu | Lys | Asp | Leu | Phe | Gly | Ser | Asp | Ser |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Glu | Ser | Gly | Asn | Glu | Glu | Glu | Asn | Leu | Ile | Ala | Asp | Ile | Phe | Gly | Glu |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |
| Ser | Gly | Asp | Glu | Glu | Glu | Glu | Glu | Phe | Thr | Gly | Phe | Asn | Gln | Glu | Asp |  |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |
| Leu | Glu | Glu | Glu | Lys | Gly | Glu | Thr | Gln | Val | Lys | Glu | Ala | Glu | Asp | Ser |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |
| Asp | Ser | Asp | Asp | Asn | Ile | Lys | Arg | Gly | Lys | His | Met | Asp | Phe | Leu | Ser |  |  |
| 305 |     |     |     | 310 |     |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Asp | Phe | Gly | Met | Met | Leu | Gln | Arg | Lys | Lys | Ser | Met | Ser | Gly | Lys | Arg |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Arg | Arg | Asn | Arg | Asp | Gly | Gly | Thr | Phe | Ile | Ser | Asp | Ala | Asp | Asp | Val |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Val | Ser | Ala | Met | Ile | Val | Lys | Met | Asn | Glu | Ala | Ala | Glu | Glu | Asp | Arg |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Gln | Leu | Asn | Asn | Gln | Lys | Lys | Pro | Ala | Leu | Lys | Lys | Leu | Thr | Leu | Leu |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
| Pro | Ala | Val | Val | Met | His | Leu | Lys | Lys | Gln | Asp | Leu | Lys | Glu | Thr | Phe |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |

000220 69462960

-3984/13211-

Ile Asp Ser Gly Val Met Ser Ala Ile Lys Glu Trp Leu Ser Pro Leu  
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Pro Asp Arg Ser Leu Pro Ala Leu Lys Ile Arg Glu Glu Leu Leu Lys  
                    420                    425                    430  
Ile Leu Gln Glu Leu Pro Ser Val Ser Gln Glu Thr Leu Lys His Ser  
                    435                    440                    445  
Gly Ile Gly Arg Ala Val Met Tyr Leu Tyr Lys His Pro Lys Glu Ser  
                    450                    455                    460  
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| Met | Pro | Lys | Val | Lys | Ala | Leu | Gln | Cys | Ala | Leu | Ala | Leu | Glu | Ile | Ser |
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| Leu | Ser | Ile | Cys | Val | Phe | Gly | Gln | Tyr | Lys | Lys | Thr | Gln | Cys | Val | Pro |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
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| Phe | Pro | Asp | Ala | Val | Asp | Pro | Gly | Asp | Val | Val | Thr | Gln | Leu | Glu | Tyr |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Asp | Thr | Ala | Val | Phe | Glu | Leu | Ile | Gln | Leu | Val | Pro | Pro | Val | Gly | Glu |
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|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
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<400> 10486

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| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Ser | Ser | Arg | Lys | Glu | Leu | Asp | Trp | Leu | Ser | Asn | Pro | Ser | Phe | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Gly | Ser | Ile | Thr | Ser | Leu | Ser | Gln | Gln | Thr | Glu | Ala | Ala | Pro | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| His | Val | Ser | Glu | Gly | Leu | Pro | Leu | Thr | Arg | Ser | His | Leu | Lys | Ser | Glu |
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| Lys | Lys | Lys | Lys | Glu | Lys | Lys | Lys | Lys | Arg | Lys | His | Gln | His | His | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Thr | Lys | Arg | Lys | His | Gly | Pro | Ser | Ser | Ser | Ser | Arg | Ser | Glu | Thr |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
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|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Lys | Glu | Ser | Glu | Glu | Pro | Asn | Gln | Gly | Asn | Asn | Ala | Ala | Ala | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Gly | His | Arg | Phe | Val | Trp | Leu | Glu | Asp | Ile | Gln | Ala | Val | Thr | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Thr | Phe | Arg | Thr | Asp | Lys | Lys | Pro | Asp | Pro | Ala | Asn | Trp | Glu | Tyr |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
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|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Lys | Thr | Glu | Pro | Pro | Ser | Ser | Glu | Pro | Ile | Ser | Phe | Ile | Pro | Val |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Lys | Asp | Leu | Glu | Asp | Ala | Ala | Pro | Val | Thr | Thr | Trp | Leu | Asn | Pro | Leu |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gly | Ile | Tyr | Asp | Gln | Ser | Thr | Thr | His | Trp | Leu | Gln | Gly | Gln | Gly | Pro |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Pro | Glu | Gln | Glu | Ser | Lys | Gln | Pro | Asp | Ala | Gln | Pro | Asp | Ser | Glu | Ser |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Ala | Leu | Lys | Ala | Lys | Val | Glu | Glu | Phe | Asn | Arg | Arg | Val | Arg | Glu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Asn | Pro | Arg | Asp | Thr | Gln | Leu | Trp | Met | Ala | Phe | Val | Ala | Phe | Gln | Asp |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Glu | Val | Met | Lys | Ser | Pro | Gly | Leu | Tyr | Ala | Ile | Glu | Glu | Gly | Glu | Gln |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Glu | Lys | Arg | Lys | Gly | Ser | Leu | Lys | Leu | Ile | Leu | Glu | Lys | Lys | Leu | Ala |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Glu | Arg | Ala | Ile | Glu | Ser | Asn | Gln | Ser | Ser | Val | Asp | Leu | Lys |
| 370 |     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Leu | Ala | Lys | Leu | Lys | Leu | Cys | Thr | Glu | Phe | Trp | Glu | Pro | Ser | Thr | Leu |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Val | Lys | Glu | Trp | Gln | Lys | Leu | Ile | Phe | Leu | His | Pro | Asn | Asn | Thr | Ala |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Leu | Trp | Gln | Lys | Tyr | Leu | Leu | Phe | Cys | Gln | Ser | Gln | Phe | Ser | Thr | Phe |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Ile | Ser | Lys | Ile | His | Ser | Leu | Tyr | Gly | Lys | Cys | Leu | Ser | Thr | Leu |
|     |     | 435 |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |
| Ser | Ala | Val | Lys | Asp | Gly | Ser | Ile | Leu | Ser | His | Pro | Ala | Leu | Pro | Gly |
| 450 |     |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Thr | Glu | Glu | Ala | Met | Phe | Ala | Leu | Phe | Leu | Gln | Gln | Cys | His | Phe | Leu |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Arg | Gln | Ala | Gly | His | Ser | Glu | Lys | Ala | Ile | Ser | Leu | Phe | Gln | Ala | Met |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Val | Asp | Phe | Thr | Phe | Phe | Lys | Pro | Asp | Ser | Val | Lys | Asp | Leu | Pro | Thr |
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| Lys | Gly | Gln | Val | Glu | Phe | Phe | Glu | Pro | Phe | Trp | Asp | Ser | Gly | Glu | Pro |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Arg | Ala | Gly | Glu | Lys | Gly | Ala | Arg | Gly | Trp | Lys | Ala | Trp | Met | His | Gln |
| 530 |     |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Gln | Glu | Arg | Gly | Gly | Trp | Val | Val | Ile | Asn | Pro | Asp | Glu | Asp | Asp | Asp |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Glu | Pro | Glu | Glu | Asp | Asp | Gln | Glu | Ile | Lys | Asp | Lys | Thr | Leu | Pro | Arg |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Trp | Gln | Ile | Trp | Leu | Ala | Ala | Glu | Arg | Ser | Arg | Asp | Gln | Arg | His | Trp |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Arg | Pro | Trp | Arg | Pro | Asp | Lys | Thr | Lys | Lys | Gln | Thr | Glu | Glu | Asp | Cys |
|     |     | 595 |     |     |     | 600 |     |     |     |     |     | 605 |     |     |     |
| Glu | Asp | Pro | Glu | Arg | Gln |     |     |     |     |     |     |     |     |     |     |
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| aaatgagact  | ccgtctccaa  | aaaaaaaaaca | agaaaaagaa  | aagaaagaaa | gaaaacctcc  | 480  |
| tttatgtttt  | aaatattact  | gttttcccaa  | aggaaaaaag  | tttgtaattt | ttggaacata  | 540  |
| atgacattgt  | caaactcatg  | aactcagctc  | taaaaagaag  | gcaacataag | ccagggttca  | 600  |
| gattcttctt  | gagctgggta  | aaaatacaac  | actttcagtt  | taagagaaac | taaaaacaaa  | 660  |
| gaaaacaatt  | aagtacattg  | tttcagttta  | actgataaaa  | tttcaattgt | aacaaccagt  | 720  |
| agcacaaact  | atcacacc    | attcaataat  | ctactcctaa  | caccctttta | agaattatta  | 780  |
| ttcctgacta  | atggcccagg  | catatccaat  | ttttcttttc  | tatctcctcc | ctggacaact  | 840  |
| tgaagcagac  | atttgaatct  | gcattttcaa  | aatgaacgtt  | ccaacatacg | cgagcctgca  | 900  |
| atgaaaaatt  | acgctgtagc  | atttaataac  | taatctaaaa  | aacaaatgta | acagcaatca  | 960  |
| atattaaact  | tctgttaatc  | ttcccacttc  | aggtagcata  | attacaatct | agagagtggg  | 1020 |
| atagtacatt  | tatgctgtct  | ttaaagaaca  | tgtgtacaaa  | atgtcactaa | atttgatatg  | 1080 |
| ggctgtcata  | gacttaatat  | agcttcatat  | gcaaatitga  | agctggagca | ctgctttttt  | 1140 |
| ctaatatata  | ttataataat  | ggtgataata  | ataaaatggc  | tttatgggtt | gtcactact   | 1200 |
| aattacatgg  | cacttaacat  | ttgcatgaat  | tttttttaaa  | aaactgataa | ctattctcaa  | 1260 |
| tttcttatcc  | actagtctta  | atggccataa  | aagtagcctg  | ccacttttgc | tgaattttta  | 1320 |
| cacaaaactct | tgtactacag  | aaaatgtagg  | cgggttaatc  | actcctgcca | aaaagcttga  | 1380 |
| agatacaata  | cgtcttgctg  | aactagtcac  | tgaagttctt  | cagcaaaatg | aggagcacca  | 1440 |
| cgcagaggcc  | tttgcgtggt  | ggtcagatit  | aatgggtggag | catgcggaga | cgttcctgtc  | 1500 |
| actcttttga  | gtagacatgg  | atgcagcctt  | agagggtgcaa | cctccagaca | catgggacag  | 1560 |
| ttttccacta  | tttcagctgc  | tgaatgattt  | tctccgtact  | gactataatt | tgtgcaatgg  | 1620 |

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aaaatttcac aaacacctgc aagacctgtt tgccccactt gttgttagat atgtggatct 1680
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 <212> PRT  
 <213> Homo sapiens

<400> 10490

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| Met | Val | Glu | His | Ala | Glu | Thr | Phe | Leu | Ser | Leu | Phe | Ala | Val | Asp | Met |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Ala | Ala | Leu | Glu | Val | Gln | Pro | Pro | Asp | Thr | Trp | Asp | Ser | Phe | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Phe | Gln | Leu | Leu | Asn | Asp | Phe | Leu | Arg | Thr | Asp | Tyr | Asn | Leu | Cys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asn | Gly | Lys | Phe | His | Lys | His | Leu | Gln | Asp | Leu | Phe | Ala | Pro | Leu | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Val | Arg | Tyr | Val | Asp | Leu | Met | Glu | Ser | Ser | Ile | Ala | Gln | Ser | Ile | His |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Gly | Phe | Glu | Arg | Glu | Ser | Trp | Glu | Pro | Val | Asn | Asn | Gly | Ser | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Ser | Glu | Asp | Leu | Phe | Trp | Lys | Leu | Asp | Ala | Leu | Gln | Thr | Phe | Ile |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Asp | Leu | His | Trp | Pro | Glu | Glu | Glu | Phe | Gly | Lys | His | Leu | Glu | Gln |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Arg | Leu | Lys | Leu | Met | Ala | Ser | Asp | Met | Ile | Glu | Ser | Cys | Val | Lys | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Thr | Arg | Ile | Ala | Phe | Glu | Val | Lys | Leu | Gln | Lys | Thr | Ser | Arg | Ser | Thr |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Asp | Phe | Arg | Val | Pro | Gln | Ser | Ile | Cys | Thr | Met | Phe | Asn | Val | Met | Val |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Asp | Ala | Lys | Ala | Gln | Ser | Thr | Lys | Leu | Cys | Ser | Met | Glu | Met | Gly | Gln |
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Glu

<210> 10491  
 <211> 1901  
 <212> DNA  
 <213> Homo sapiens

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<222> (1019).. (1339)

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aaatttaatt tatatatggt aactgaaaaa ttctctaaag aattagaaaa taagaaaaag 180  
gaattacatt ttttacaaaa agtagtttca gagccagcta tgggocattc tgatcttctt 240  
gaacttgaat ctaaaataaa tgaaataaac acagaaatta accagttgat tgaaaagaaa 300  
atgatgagaa atgagcccat tgaaggcaaa ctctcactgt ataggcaaca ggcattctatc 360  
atttcccgtg aaaaagaagc caaagctgag gaacttcagg aggccaagga gaagttagcc 420  
agcctagaga gagaagcatc agtaaagaga aatcagaccc gtgaatttga tgggtactgaa 480  
gttttaaagg gagatgagtt caaacgatat gtcaataaac ttccaagcaa gactacagtt 540  
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gagaaaaagg gtatatcttg atatagttac acccaagaag agctagaaaag agtatctgca 720  
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<212> PRT  
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<400> 10492  
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Glu Gln Tyr Thr Lys Asn Thr Ala Glu Gln Glu Asn Leu Gly Lys Lys  
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Leu Arg Glu Lys Gln Lys Val Ile Arg Glu Ser His Gly Pro Asn Met  
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Lys Gln Ala Lys Met Trp Arg Asp Leu Glu Gln Leu Met Glu Cys Lys  
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Lys Gln Cys Phe Leu Lys Gln Gln Ser Gln Thr Ser Ile Gly Gln Val  
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ctggggagcc gtccagggat acacgagggg ctgctggggc cttggacaag ggtggaagct 1380  
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09629469.072890

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caggcaccag ggtcatggcc tgggacctgg aacttgccc ctcaccctc cctccctcc 1620
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<210> 10494  
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 <213> Homo sapiens

<400> 10494

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| Met | Phe | Ala | Asp | Leu | Asp | Tyr | Asp | Ile | Glu | Glu | Asp | Lys | Leu | Gly | Ile | 1   | 5   | 10  | 15  |
| Pro | Thr | Val | Pro | Gly | Lys | Val | Thr | Leu | Gln | Lys | Asp | Ala | Gln | Asn | Leu | 20  | 25  | 30  |     |
| Ile | Gly | Ile | Ser | Ile | Gly | Gly | Gly | Ala | Gln | Tyr | Cys | Pro | Cys | Leu | Tyr | 35  | 40  | 45  |     |
| Ile | Val | Gln | Val | Phe | Asp | Asn | Thr | Pro | Ala | Ala | Leu | Asp | Gly | Thr | Val | 50  | 55  | 60  |     |
| Ala | Ala | Gly | Asp | Glu | Ile | Thr | Gly | Val | Asn | Gly | Arg | Ser | Ile | Lys | Gly | 65  | 70  | 75  | 80  |
| Lys | Thr | Lys | Val | Glu | Val | Ala | Lys | Met | Ile | Gln | Glu | Val | Lys | Gly | Glu | 85  | 90  | 95  |     |
| Val | Thr | Ile | His | Tyr | Asn | Lys | Leu | Gln | Ala | Asp | Pro | Lys | Gln | Gly | Met | 100 | 105 | 110 |     |
| Ser | Leu | Asp | Ile | Val | Leu | Lys | Lys | Val | Lys | His | Arg | Leu | Val | Glu | Asn | 115 | 120 | 125 |     |
| Met | Ser | Ser | Gly | Thr | Ala | Asp | Ala | Leu | Gly | Leu | Ser | Arg | Ala | Ile | Leu | 130 | 135 | 140 |     |
| Cys | Asn | Asp | Gly | Leu | Val | Lys | Arg | Leu | Glu | Glu | Leu | Glu | Arg | Thr | Ala | 145 | 150 | 155 | 160 |
| Glu | Leu | Tyr | Lys | Gly | Met | Thr | Glu | His | Thr | Lys | Asn | Leu | Leu | Arg | Ala | 165 | 170 | 175 |     |
| Phe | Tyr | Glu | Leu | Ser | Gln | Thr | His | Arg | Ala | Phe | Gly | Asp | Val | Phe | Ser | 180 | 185 | 190 |     |
| Val | Ile | Gly | Val | Arg | Glu | Pro | Gln | Pro | Ala | Ala | Ser | Glu | Ala | Phe | Val | 195 | 200 | 205 |     |
| Lys | Phe | Ala | Asp | Ala | His | Arg | Ser | Ile | Glu | Lys | Phe | Gly | Ile | Arg | Leu | 210 | 215 | 220 |     |
| Leu | Lys | Ala | Ile | Lys | Pro | Met | Leu | Thr | Asp | Leu | Asn | Thr | Tyr | Leu | Asn | 225 | 230 | 235 | 240 |
| Lys | Ala | Ile | Pro | Asp | Thr | Arg | Leu | Thr | Ile | Lys | Lys | Tyr | Leu | Asp | Val |     |     |     |     |

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<210> 10495  
<211> 1445  
<212> DNA  
<213> Homo sapiens

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| cagcagaggt | ggtagaagag | gtggagaagt | ataaggccac  | tctgagacgg | ttctttaaga | 120  |
| gtcgagggaa | atggtgtgtt | gtatttgaga | gaaattataa  | gagccatcac | ctccagctac | 180  |
| aggtcatttc | tgtcccaatc | agctgctcta | ctactgatga  | cattaaagat | gccttcatta | 240  |
| cccaggcaca | ggagcagcag | atagagctgt | tggaaatccc  | agagcactct | gacatcaagc | 300  |
| agattgcaca | gccaggagca | gcatattttt | atgttgaact  | tgacacagga | gaaaagcttt | 360  |
| tccacagaat | taaaaagaat | tttcctttgc | agtttggaag  | ggaggtcctg | gccagtgaag | 420  |
| ccatccttaa | tgttcctgat | aagtctgact | ggaggcagtg  | tcagatcagc | aaggaagacg | 480  |
| aggagacct  | ggctcgccgc | ttccggaaag | actttgagcc  | ctatgacttt | actctggatg | 540  |
| actaaaacaa | agggaagaac | tttttatgaa | ctccacagga  | agtagtaaag | cttttttttt | 600  |
| tttttaatta | aaagaatttt | ttttgagacg | gagtctcgct  | ctgtcaccca | agcaggattg | 660  |
| cagtggcata | actgtggctc | actgtagcct | caacctcctg  | ggctctggag | ttcctccac  | 720  |
| ctcagcctca | tgagtggctg | ggaccgcagg | cgcatgctac  | catgcctggc | aaactttttt | 780  |
| gattttttat | agagacagga | gggtctccct | gtgttgccca  | ggctggtctg | taatgcctag | 840  |
| gctcaaggga | tcctctgcct | tggcttctta | acctgctggg  | attacaagca | tgagacacca | 900  |
| ttcctggcct | agaagcctat | ttttaagaa  | actacaatct  | cccatgggga | ctgtttccct | 960  |
| gcctcttttg | tgcagtccca | tggaaacttg | ctacagcaag  | aggcctaaga | ttgaatcttt | 1020 |
| ttggggaaaa | gtcattctag | gatgaaaatc | ctatgttaag  | gccgggcgca | gtggctcacg | 1080 |
| cctgtaatcc | cagtactttg | ggaagccgag | gcagggtggat | cacctgaggt | gaggagtttg | 1140 |

|             |            |             |             |            |            |      |
|-------------|------------|-------------|-------------|------------|------------|------|
| agaccagcct  | ggccaacatg | gtgaaacccc  | gtctttacta  | aagctacaaa | aattagctgg | 1200 |
| gcgtgggtgcc | aggcgcttgt | ggtcccggct  | actcaggagg  | ctgaggcagg | agaattgctt | 1260 |
| gagcctggga  | ggtggaggtt | gcagtgagcc  | aagatcgctc  | cattgcactc | cagcctgggt | 1320 |
| gacagtga    | ctccatctca | aaaataaaaag | aataaaaagta | tgtctgtcat | ccagctccta | 1380 |
| tgtctgttat  | ccagctccaa | gtacagcttg  | tgtatatcaa  | cattttcaaa | aacctttaa  | 1440 |
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<210> 10496

<211> 2135

<212> DNA

<213> Homo sapiens

<400> 10496

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| gagctgttgc | actggccctt | gtgtggctgg | tccctcctca  | tcaccagggt  | cccagctcca | 120  |
| atgtcatctt | ctctgagaag | ccgtccctga | ccaggcttag  | ttgcttccca  | ccccagcctg | 180  |
| acacactcca | gcccatac   | cagtcagtgt | tatttgcctc  | atttttacat  | tatggtctaa | 240  |
| aattaacttg | ctagtctt   | ggtttactag | tttattatct  | gtctccttcc  | attatccctc | 300  |
| tccttccttc | cttccttcc  | ccttccttcc | ttccttcctt  | ccttccttcc  | ttccttcctt | 360  |
| cgagacacag | tcgtactctg | tcaccccggc | tggagtgcag  | tgggtgtgatc | ttgcctcact | 420  |
| acaacccctg | cctcctgggt | tttagcgatt | cttctgcctc  | agcctcccga  | gtagctggga | 480  |
| ctacaggcac | ccaccacgat | gccaggctaa | tttttgtatt  | tttattggag  | acagggtttc | 540  |
| accatgttgg | ccaagctggt | ctcgaactct | tgacttcaag  | tgatccacct  | gtctcggcct | 600  |
| cccaaagtgc | tgggattaca | ggcatgagcc | actgcacctg  | gcccttttat  | tattcatagt | 660  |
| aagacacaca | gggaccacaa | ttgtctcttc | tactcagtag  | ttggattctg  | agtgcctagt | 720  |
| tcagtatttg | gcaagtaaga | gttctacatt | tgatatcctg  | gtttacctga  | caacaaagta | 780  |
| totccaaatt | cattcattca | ttctttcatt | cattcgatag  | gtattttactg | aacatctaac | 840  |
| ttatgccc   | cactatgctg | agagatatga | gataaccatg  | aatagtacaa  | aagcaatccc | 900  |
| tgcccttgca | gagcaaacag | ccaaatatca | ggagacagggt | aacacacaag  | gaaatgtaca | 960  |
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|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Leu | Gln | Ile | Pro | Glu | Ile | Ile | His | Phe | Cys | Cys | Asp | Phe | Leu | Met |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Trp | Val | Asp | Glu | Glu | Asn | Ile | Leu | Asp | Val | Tyr | Arg | Leu | Ala | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Leu | Phe | Asp | Leu | Ser | Arg | Leu | Thr | Glu | Gln | Leu | Asp | Thr | Tyr | Ile | Leu |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Lys | Asn | Phe | Val | Ala | Phe | Ser | Arg | Thr | Asp | Lys | Tyr | Arg | Gln | Leu | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Glu | Lys | Val | Tyr | Ser | Leu | Leu | Ser | Ser | Asn | Arg | Leu | Glu | Val | Ser |
|     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Cys | Glu | Thr | Glu | Val | Tyr | Glu | Gly | Ala | Leu | Leu | Tyr | His | Tyr | Ser | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Gln | Val | Gln | Ala | Asp | Gln | Ile | Ser | Leu | His | Glu | Pro | Pro | Lys | Leu |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Glu | Thr | Val | Arg | Phe | Pro | Leu | Met | Glu | Ala | Glu | Val | Leu | Gln | Arg |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Leu | His | Asp | Lys | Leu | Asp | Pro | Ser | Pro | Leu | Arg | Asp | Thr | Val | Ala | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Leu | Met | Tyr | His | Arg | Asn | Glu | Ser | Leu | Gln | Pro | Ser | Leu | Gln | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Pro | Gln | Thr | Glu | Leu | Arg | Ser | Asp | Phe | Gln | Cys | Val | Val | Gly | Phe | Gly |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Gly | Ile | His | Ser | Thr | Pro | Ser | Thr | Val | Leu | Ser | Asp | Gln | Ala | Lys | Tyr |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Asn | Pro | Leu | Leu | Gly | Glu | Trp | Lys | His | Phe | Thr | Ala | Ser | Leu | Ala |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Pro | Arg | Met | Ser | Asn | Gln | Gly | Ile | Ala | Val | Leu | Asn | Asn | Phe | Val | Tyr |
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| Leu | Ile | Gly | Gly | Asp | Asn | Asn | Val | Gln | Gly | Phe | Arg | Ala | Glu | Ser | Arg |
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|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
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|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |
| Glu | Arg | Tyr | Asp | Pro | Ala | Thr | Asn | Ser | Trp | Ala | Tyr | Val | Ala | Pro | Leu |
|     |     |     | 420 |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Lys | Arg | Glu | Val | Tyr | Ala | His | Ala | Gly | Ala | Thr | Leu | Glu | Gly | Lys | Met |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Tyr | Ile | Thr | Cys | Gly | Arg | Arg | Gly | Glu | Asp | Tyr | Leu | Lys | Glu | Thr | His |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
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 <213> Homo sapiens

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aaccaaaact ttctacttg gaaatgacct ttgggtctgga cagtttgtaa atgctaaatg 480
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| tccctgggtg | gggagggccc | agccaacaga  | aatgcatgtc | cactgtgcgg | gccagtgtgt  | 1200 |
| gtttacacaa | atttcatttc | agctttgaaa  | atgctgctat | tagtttccac | tggttggtgaa | 1260 |
| ctggattttt | tcctcctatt | gaaatgatac  | tttcatactt | ataaagctgt | cgtcaatatt  | 1320 |
| tatttcaagg | tgctagattt | aattttgtta  | ttaaattgaa | atgcttatct | tgtgttcaag  | 1380 |
| cacagcactg | attttaacaa | cctgcattta  | atgtgaagta | accgaagtag | gatactgtaa  | 1440 |
| ctgtgtaagg | attttgtttg | taatcttgta  | acattgaacc | attgaaatgt | tcagttcttt  | 1500 |
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (85).. (354)

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| tgccgctgcc  | gtccctgctg | cctcatggcg  | gccatcggag  | ttcacctggg  | ctgcacctca  | 120  |
| gcctgtgtgg  | ccgtctataa | ggatggccgg  | gctggtgtgg  | ttgcaaatga  | tgccggtgac  | 180  |
| cgagttaact  | cagctgttgt | tgcttactca  | gaaaatgaag  | agattgttgg  | attggcagca  | 240  |
| aaacaaaagta | gaataagaaa | tatttcaaatt | acagtaattga | aagtaaagca  | gatcctgggc  | 300  |
| agaagccaga  | aatgcggtcc | ttggacctgg  | cttctcagct  | tctccgaaat  | cagatagtga  | 360  |
| ctgacctcaga | caacttaatt | gaggatgctg  | cttgggcca   | gcactgtgat  | cagaacttag  | 420  |
| tgccctctga  | cgccccaggg | gaagagggaa  | ccggcattct  | aaaatcaaaa  | aggactcagg  | 480  |
| cagctgatca  | tcagcctatc | ttgaaaacag  | ttaaggcatc  | agatgaggat  | tgtoagctaa  | 540  |
| gaatcagtga  | ccggatacga | gaaaccagtg  | accttgagga  | ctcctgggat  | gaatcctcgg  | 600  |
| gtgcagggtg  | ctctcaaggg | acccccagct  | acagcagctc  | ccacagcctt  | ttcagagggtg | 660  |
| cagttgctcc  | ctgtcagagc | agccccatgg  | ccagactggg  | tgtgtccggg  | gagcccagcc  | 720  |
| cctgcaccag  | caccaaccgc | agcactcctg  | gggtagcctc  | cacaccgcag  | actccagtct  | 780  |
| cctcttcagag | agctgggttt | gtttctgggtg | gggataggcc  | cttgaccagt  | gagccccctc  | 840  |
| caagggtgggc | aaggcgaaga | aggcgggtcag | tgccaggac   | tatgcagcc   | gagttggcag  | 900  |
| aaaacaggcg  | attggcacga | gaactctcaa  | agcgggagga  | agaaaaactg  | gacaggctga  | 960  |
| ttgctattgg  | tgaggaggcc | agtgtctcagc | aagatactgc  | caatgagctc  | cgcagggatg  | 1020 |
| ctgtcatcgc  | agtcagacgt | ttggcaacag  | cagtgggaaga | ggcaactggg  | gcttttcagc  | 1080 |
| taggccttga  | aaaattgctt | cagagggttga | tttcgaatac  | caaaagctag  | gaaccaatta  | 1140 |
| caaaaggctc  | tgcttcctaa | actggtagaa  | gtctagtctc  | caaacctgcc  | ttctgaatcc  | 1200 |
| ctggctcctt  | ttctgtgtcc | tcagaaaaaa  | acatggatga  | accatttata  | tccagatagt  | 1260 |
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| tggggatcaa  | taataactcc | tgccctgcct  | acctcacagg  | gttgttgtga  | ggatcacgta  | 1500 |
| gttcatagat  | gtgaagggtg | ttaaaagttt  | aaaagcactg  | tacacattta  | agttattaat  | 1560 |
| tcatatggcc  | ttggctgagg | taaggcagat  | tggtttacaa  | gatacagaag  | tatggatata  | 1620 |
| tactgtgact  | tcattgcttg | aatctttcct  | ttgctggtct  | aacttgactg  | cttcatggag  | 1680 |

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<213> Homo sapiens

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35 40 45  
Gly Leu Ala Ala Lys Gln Ser Arg Ile Arg Asn Ile Ser Asn Thr Val  
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<400> 10509

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| Met | Glu | Asp | Ala | Arg | Val | Leu | Ser | Lys | Lys | Gln | Pro | Asp | Val | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Glu | Val | Ile | Leu | Leu | Arg | Glu | Gly | Glu | Ala | Glu | Arg | Lys | Pro | Val |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Lys | Glu | Ile | Leu | Lys | Arg | Glu | Ser | Lys | Lys | Ile | Lys | Leu | Asp | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Asn | Thr | Val | Ala | Ser | Pro | Lys | Asp | Cys | Gln | Glu | Leu | Ala | Ser | Ile |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Ser | Val | Gly | Ser | Gly | Ser | Arg | Pro | Ser | Ser | Asp | Leu | Gln | Ala | Arg | Leu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gly | Glu | Pro | Ala | Gly | Glu | Ser | Val | Glu | Asn | Gln | Glu | Val | Gln | Ser | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Pro | Ile | Pro | Ser | Lys | Pro | Gln | Leu | Lys | Gln | Leu | Gln | Val | Leu | Asp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Gln | Gly | Pro | Glu | Arg | Glu | Asp | Val | Arg | Lys | Asn | Tyr | Cys | Ser | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Asp | Glu | Thr | Pro | Glu | Arg | Lys | Ser | Gly | Gln | Glu | Lys | Ser | His | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Asn | Thr | Glu | Glu | Lys | Ile | Gly | Ile | Asp | Ile | Asp | His | Thr | Gln | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Tyr | Arg | Lys | Gln | Met | Glu | Gln | Ser | Arg | Arg | Lys | Gln | Gln | Met | Glu | Met |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Glu | Ile | Ala | Lys | Ser | Glu | Lys | Phe | Gly | Ser | Pro | Lys | Lys | Asp | Val | Asp |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Glu | Tyr | Glu | Arg | Arg | Ser | Leu | Val | His | Glu | Val | Gly | Lys | Pro | Pro | Gln |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Asp | Val | Thr | Asp | Asp | Ser | Pro | Pro | Ser | Lys | Lys | Lys | Arg | Met | Asp | His |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Val | Asp | Phe | Asp | Ile | Cys | Thr | Lys | Arg | Glu | Arg | Asn | Tyr | Arg | Ser | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Gln | Ile | Ser | Glu | Asp | Ser | Glu | Arg | Thr | Gly | Gly | Ser | Pro | Ser | Val |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | His | Gly | Ser | Phe | His | Glu | Asp | Glu | Asp | Pro | Ile | Gly | Ser | Pro | Arg |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Leu | Ser | Val | Lys | Gly | Ser | Pro | Lys | Val | Asp | Glu | Lys | Val | Leu | Pro |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Tyr | Ser | Asn | Ile | Thr | Val | Arg | Glu | Glu | Ser | Leu | Lys | Phe | Asn | Pro | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asp | Ser | Ser | Arg | Arg | Glu | Gln | Met | Ala | Asp | Met | Ala | Lys | Ile | Lys | Leu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |

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325 330 335  
Lys Gln Asp Ala Gly Arg Phe Asp Val Ser Phe Pro Asn Ser Ile Ile  
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Lys Arg Asp Ser Leu Arg Lys Arg Ser Val Arg Asp Leu Glu Pro Gly  
355 360 365  
Glu Val Pro Ser Asp Ser Asp Glu Asp Gly Glu His Lys Ser His Ser  
370 375 380  
Pro Arg Ala Ser Ala Leu Tyr Glu Ser Ser Arg Leu Ser Phe Leu Leu  
385 390 395 400  
Arg Asp Arg Glu Asp Lys Leu Arg Glu Arg Asp Glu Arg Leu Ser Ser  
405 410 415  
Ser Leu Glu Arg Asn Lys Phe Tyr Ser Phe Ala Leu Asp Lys Thr Ile  
420 425 430  
Thr Pro Asp Thr Lys Ala Leu Leu Glu Arg Ala Lys Ser Leu Ser Ser  
435 440 445  
Ser Arg Glu Glu Asn Trp Ser Phe Leu Asp Trp Asp Ser Arg Phe Ala  
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<212> DNA  
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ctttattatt cagaagattt gccattttag tcaactcaaa tatcagtact atttcatagc 540  
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ttaagttaaa aacaaactta ttgcctattt atggaagaaa aacctgttat tttattctgg 840  
tttaaaagtt aaaagcgttg cctctaccac tggataacct gtttgcacaa ttaaattgatt 900  
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|            |            |             |             |            |             |      |
|------------|------------|-------------|-------------|------------|-------------|------|
| aatgtggaga | ttctaaaaca | gtattgtctg  | aaaacataga  | atagttggac | ttaatgttct  | 1140 |
| cttcagaaaa | tctaactgta | aacttgggtac | tttccctacag | ttcacttgtg | aaaaataata  | 1200 |
| tctatgaaga | tggagagatt | cctaaaggaa  | ttccactatt  | ttacataga  | gccccaaagt  | 1260 |
| tccttgaccc | aagcaagacc | atcaaggagc  | tatctggatt  | gtatgatact | ggacctcagt  | 1320 |
| agaactactt | ttactgaatt | gctggagcca  | aaactaggct  | gcagcaagag | aaggcaatta  | 1380 |
| gggtacaaaa | tctaaggaag | ctgtcattct  | gaggatcata  | tgatagatgc | tgggttaaga  | 1440 |
| catatggctg | ggcatgggtg | ctcatgcctg  | taatcccagc  | cctttgagag | gccaaggcag  | 1500 |
| gtggatcact | tgaggtcagg | agttcaagac  | cagcctgggc  | aacatggtga | aacccccacat | 1560 |
| ctactaaaaa | tacaaaaaca | gctgggcgtg  | gtggcatgga  | cctctaatac | cagttactta  | 1620 |
| ggaggctgag | gcaggagaat | agcttgaacc  | caggagggtg  | acgttgcagt | gagccgagat  | 1680 |
| catgccactc | gactccagcg | tgggc       |             |            |             | 1705 |

<210> 10511  
 <211> 1957  
 <212> DNA  
 <213> Homo sapiens

<400> 10511

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| atttgacatg  | ctgcttcctt | tctgatgggc  | tctaacttca | gcttttcggt  | ctcattcaga  | 60   |
| gtagagaaat  | taacagattt | tactggcggg  | tgttttcaga | ttaagaaact  | caaagggcag  | 120  |
| ctggaggaga  | gacagaagat | tggcaaaacta | gacaatcttc | gatctgaaga  | tgatgtcttg  | 180  |
| gaaaaacggga | cagacatgca | tgtaatggac  | ctacaaagta | aatgtcaatt  | cttgtgtaga  | 240  |
| agtaaatgct  | ttcacatgtg | ctgttttagt  | atacttgtgc | tggcagagaa  | aactgtcacg  | 300  |
| gcaaaagaatg | ccctcattcc | ctcacatccc  | cacaaaagcc | cttaaaaaata | aaagcacaaag | 360  |
| gaggggtagg  | tagacagaac | aatgggtgtt  | ctctctgagc | ctatgaaata  | gaacaggtag  | 420  |
| ccaaaaacgt  | gcaccaagat | accaccacat  | gttgtgcoga | tggaaaccac  | atttactttg  | 480  |
| ctggatacag  | caatctttcg | atctgttgat  | tgtatgaaaa | aaaaaaaaaat | gaaaggcttt  | 540  |
| tttcatgcta  | ataaactaga | aacagtctta  | agggagataa | aattatgcc   | agtctctctc  | 600  |
| cgcccttttc  | cctacccctt | accatctctt  | tgtctctctc | actcataggc  | actctcttgc  | 660  |
| ctgaggtttc  | ctgccccaa  | cacaggggog  | gaaggcactt | tccttgggtt  | catggggaga  | 720  |
| gagtgccctc  | tcctactctc | agctctggga  | ggttgtggag | gcagggccag  | aactaacaga  | 780  |
| tttgtgagat  | gattacaaag | taagggtctg  | gttcccagta | actattgttt  | taatatttga  | 840  |
| aaagcccaag  | agcttaacag | attttccttc  | tctttcaacc | tttaggggat  | gccaacagac  | 900  |
| agatcagcga  | cctcaaattt | aaacttgcaa  | aatctgagca | agagataact  | gcattagaac  | 960  |
| aaaaatgtaat | aaggttagag | agtcaagtat  | cacgttacaa | atcagcggct  | gaaaatgcag  | 1020 |
| aaaaaataga  | agatgaactt | aaggcagaaa  | aacggaaact | ccaaagagag  | ctccgctctg  | 1080 |
| cattggataa  | aacagaagag | ctcgagggtga | gcaacggcca | cttagtgaag  | cgtctggaaa  | 1140 |
| aaatgaaagc  | aaatcggagt | gcactcttgt  | cccagcagta | aattccagct  | ctgatcaggc  | 1200 |
| aactggttgg  | tgactggaga | gcattgtttc  | ataggctttt | ctctgtcctg  | tctggggagcg | 1260 |
| ctgcttcttc  | ccctgccttc | tgagagacga  | agaccgtggc | gagcttggcg  | tttaggggct  | 1320 |
| cccgtgccat  | ggctcaccoc | agggagcccc  | agcagccacc | aggtgcctct  | gtctgcagac  | 1380 |
| ccctggccccg | ggctggcgcc | gacgctcaga  | acctgcagg  | acttcataag  | cacacagggg  | 1440 |
| cctcgaggga  | gctctgtgtc | tgaccgcaca  | gcagcctctg | aatgocgctg  | gaagtgatga  | 1500 |
| tcaaagtaaa  | gattcagttg | ggacttgagt  | ttttttttt  | ttcatgtgtc  | ttgctgaaga  | 1560 |
| ttaaggggaa  | atgttacagt | gttgggactt  | cctttcatgg | cagaatctac  | aatttgagcg  | 1620 |
| acttcagtag  | tatctcttag | tctacgcttt  | tcatacacia | aacactgtgg  | aaccacaagc  | 1680 |
| cattaccaag  | caaaactctt | tacttgaaa   | caagggggca | gtctagaagt  | aaaagtgacc  | 1740 |

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| ttaagaagac | tctttacagg | caacaaatga | agctttttcta | agggattttt  | gcatcagttc | 1800 |
| agtcataaga | atactttttt | ccagggtaat | taggcaatag  | cttcactgaa  | aatgacagct | 1860 |
| tttcattgca | ttatttaatc | cttatatttg | gaattgaagt  | cgtttaacttc | ttttaaagaa | 1920 |
| tgtactatta | gaaaaattaa | aaatgaaatg | ttgagag     |             |            | 1957 |

<210> 10512  
 <211> 1691  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (136).. (558)

<400> 10512

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| atcatcatcc | agcatgagaa | catcttccca | agccccaggg  | agctggaggg  | ccctgtctac  | 120  |
| agcagaggag | gaagcatgga | ggattactgt | gatagccctc  | atggagagac  | tacctcggtt  | 180  |
| gaagactcaa | cccaggatgt | gaccgcagag | caccacacga  | gcgatgacga  | atgtgagccc  | 240  |
| atcgaggcca | ttgccaaagt | tgactacgtg | ggccggacag  | cccagagagct | gtcctttaag  | 300  |
| aagggagcat | ccctgctgct | ttaccagcgg | gcttccgacg  | actggtggga  | aggccggcac  | 360  |
| aatggcatcg | acggactcat | cccccatcag | tacatcgttg  | tccaagacac  | cgaggacggt  | 420  |
| gtcgtggaga | ggtccagccc | caagtctgag | attgagggtca | tttctgagcc  | acctgaagaa  | 480  |
| aaggtgacag | ccagagcggg | ggccagctgt | cccagtgggg  | gtcatgtagc  | cgatatttat  | 540  |
| ottgcaaaca | tcaacaagta | agctctgctt | ttcattttct  | gotccccctga | atgacttgca  | 600  |
| acacccagcc | tcaccctctg | gcctaaccoc | catctccatt  | cctgtgctgc  | acgtagggct  | 660  |
| cccagctccc | ccagcctaac | agtttgcatg | tggtcattgc  | tgctgcaagg  | cggacagggc  | 720  |
| tgaggatgct | gtacaagcc  | tcggggcagg | tccaggctctc | cagctagctg  | ccctcgtgct  | 780  |
| gtggaagggg | gctttactgt | gtgttccgcg | agtgtctgtc  | caccagacc   | tttgtggcag  | 840  |
| tottacagct | aaaactttga | ccaaagcttt | ggtcacttta  | tgcaacctgg  | ttttgtactg  | 900  |
| tttctcagag | gtgccttctt | ttttccaatc | catactcaaa  | taatagtctt  | tgatgtctgt  | 960  |
| cttccctgac | ccgtgttcgt | gcaaagattc | agagtctgtg  | tgtggcttct  | actaggctga  | 1020 |
| tgttacacca | ggtgggttta | ttgagatata | atgtgtctgt  | tcctccccct  | gtcctgcatt  | 1080 |
| cactcctgtg | gaggaaagga | ggccacgatg | tccctaagga  | aagctttgtc  | ctgagctctt  | 1140 |
| cattcattgg | ctaaccctta | gctccctttt | cttctgccct  | ttcacaccag  | gagaaataat  | 1200 |
| tttccatttt | gttcctattg | ctttggcctt | ttgtattatt  | ctacccccct  | agtccctttg  | 1260 |
| cagatcccca | ctcctgctca | gcaggctctt | acctctgacc  | cccagctttc  | attgtggctg  | 1320 |
| ttagcaacat | cctgggggtt | aaacccacc  | cacgcccgat  | ctggctgtct  | agagggattc  | 1380 |
| tacgcctgcg | tgctgccgcc | tccccaagag | gcattcaggt  | tattggagaa  | ctaattctcat | 1440 |
| ctcaaggggc | cagacaccaa | gtcccaaagc | ctacagacct  | ctttccgcca  | ggccctgaaa  | 1500 |
| cctggccccg | tgccagcagg | atgacaagcc | ccagggcgct  | cctgatgaat  | atggattgga  | 1560 |
| gatgatgtac | agtttttatt | cccctctggc | ttttgaggaa  | tgaaatgatt  | tgcactttga  | 1620 |
| aaacctgtta | accgtagcct | ctggacactg | agactggaag  | gagaataaag  | gatgcttggt  | 1680 |
| gtttttaaac | t          |            |             |             |             | 1691 |

<210> 10513

09629469.072800

<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 10513

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Asp | Tyr | Cys | Asp | Ser | Pro | His | Gly | Glu | Thr | Thr | Ser | Val | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Ser | Thr | Gln | Asp | Val | Thr | Ala | Glu | His | His | Thr | Ser | Asp | Asp | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Cys | Glu | Pro | Ile | Glu | Ala | Ile | Ala | Lys | Phe | Asp | Tyr | Val | Gly | Arg | Thr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Arg | Glu | Leu | Ser | Phe | Lys | Lys | Gly | Ala | Ser | Leu | Leu | Leu | Tyr | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Ala | Ser | Asp | Asp | Trp | Trp | Glu | Gly | Arg | His | Asn | Gly | Ile | Asp | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Leu | Ile | Pro | His | Gln | Tyr | Ile | Val | Val | Gln | Asp | Thr | Glu | Asp | Gly | Val |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Val | Glu | Arg | Ser | Ser | Pro | Lys | Ser | Glu | Ile | Glu | Val | Ile | Ser | Glu | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Glu | Glu | Lys | Val | Thr | Ala | Arg | Ala | Gly | Ala | Ser | Cys | Pro | Ser | Gly |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Gly | His | Val | Ala | Asp | Ile | Tyr | Leu | Ala | Asn | Ile | Asn | Lys |     |     |     |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

<210> 10514  
<211> 1672  
<212> DNA  
<213> Homo sapiens

<220>

<221> CDS

<222> (31).. (474)

<400> 10514

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| cggaatcgcg  | tcaccgaccg  | ctacttttcgg | atccaggagg  | tgctgaagca  | cgccaggcac  | 120 |
| ttctgggggaa | ggaaaaatcg  | ctgctacagg  | ttggcgggtca | gaaccgtgat  | togagccttt  | 180 |
| gtgaaatgca  | ccaaagcccg  | atacctgaag  | aaaaagaaca  | tgaggaccgt  | aagcgtggac  | 240 |
| ccgggacacc  | cgccggccag  | cgcaactcgcg | gcccctgcgt  | ttctgcgcgc  | cgaccagct   | 300 |
| agtgtgcagc  | cgcccgccca  | ccctcagccc  | cttcctttca  | taccttgctt  | cgaaactccg  | 360 |
| acaaattatg  | tgcgcccgca  | ggcaaaactgt | gggacatccg  | ttctcccgcc  | cgcccgccac  | 420 |
| ccccactgtc  | acccctgct   | ccagcccctc  | gcccggggcca | ctgcagagcc  | gccttgacac  | 480 |
| tctccctgcg  | tgcagagcca  | ccgcctagt   | cgctgctgct  | ctcatccctc  | cgggtggottc | 540 |
| ccttcccttt  | ggcagctgaa  | gtcaaccag   | cccccttgcca | accctccagg  | gctactatct  | 600 |
| gctgccgtgg  | tgctcctcga  | agagaccacg  | cctgctgcca  | agctctgccc  | accgggaacc  | 660 |
| ccccgcattt  | ctgggaggct  | ggcgccctcca | ctctgtccac  | gtgccgcctc  | attactgcgc  | 720 |
| ctcaccactc  | cgtctcagc   | ctcatgaacc  | tagcatctaa  | cgtaccccg   | tttttttttc  | 780 |

009227072800

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tgtgactgca ggtgtgcgcc accaagctat tttttgtatt tttagtagag accgggttcc 960
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cataacatcc agaagtcatt ttttaagtatc ttcatgtttt ottatttcag ctctggatta 1260
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<210> 10515  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 10515

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Phe | Leu | Thr | Ala | Gln | Leu | Trp | Leu | Arg | Asn | Arg | Val | Thr | Asp |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Arg | Tyr | Phe | Arg | Ile | Gln | Glu | Val | Leu | Lys | His | Ala | Arg | His | Phe | Trp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Arg | Lys | Asn | Arg | Cys | Tyr | Arg | Leu | Ala | Val | Arg | Thr | Val | Ile | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Phe | Val | Lys | Cys | Thr | Lys | Ala | Arg | Tyr | Leu | Lys | Lys | Lys | Asn | Met |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Arg | Thr | Val | Ser | Val | Asp | Pro | Gly | His | Pro | Pro | Ala | Ser | Ala | Leu | Ala |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ala | Pro | Ala | Phe | Leu | Arg | Arg | Asp | Pro | Ala | Ser | Val | Gln | Pro | Pro | Gly |
|     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |     |
| His | Pro | Gln | Pro | Leu | Pro | Phe | Ile | Pro | Cys | Phe | Glu | Thr | Pro | Thr | Asn |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Tyr | Val | Ala | Pro | Gln | Ala | Asn | Cys | Gly | Thr | Ser | Val | Leu | Pro | Pro | Arg |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Arg | His | Pro | His | Cys | His | Pro | Leu | Leu | Gln | Pro | Leu | Ala | Arg | Ala | Thr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Glu | Pro | Pro |     |     |     |     |     |     |     |     |     |     |     |     |
| 145 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 10516  
 <211> 1601  
 <212> DNA

09629469.072800

<213> Homo sapiens

<400> 10516

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ttgagttgct tctacttttt gagtattatc aataattctg ttatgaacat tcttgtacaa 240
tttttttgta gacattttatc ttcatatttc ttggatatat acctaggagc agaattgctg 300
cgtcagatgg taatgctggt taaccttttc aggaactgtc agactgttct gaagtgggta 360
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<210> 10517

<211> 1770

<212> DNA

<213> Homo sapiens

<220>

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<222> (54).. (1181)

<400> 10517

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tggtaaagaa aggaaaaaagc aaagttgggg acatgttggg aaaggcagca gagttaatga 420
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<400> 10518

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| Met | Ala | His | Ile | Thr | Ile | Asn | Gln | Tyr | Leu | Gln | Gln | Val | Tyr | Glu | Ala |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ile | Asp | Ser | Arg | Asp | Gly | Ala | Ser | Cys | Ala | Glu | Leu | Val | Ser | Phe | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| His | Pro | His | Val | Ala | Asn | Pro | Arg | Leu | Gln | Met | Ala | Ser | Pro | Glu | Glu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Cys | Gln | Gln | Val | Leu | Glu | Pro | Pro | Tyr | Asp | Glu | Met | Phe | Ala | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| His | Leu | Arg | Cys | Thr | Tyr | Ala | Val | Gly | Asn | His | Asp | Phe | Ile | Glu | Ala |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Tyr | Lys | Cys | Gln | Thr | Val | Leu | Val | Gln | Ser | Phe | Leu | Arg | Val | Phe | Ala |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Asn | Asn | Ala | Asp | Gln | Gln | Leu | Val | Lys | Lys | Gly | Lys | Ser | Lys | Val | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Met | Leu | Glu | Lys | Ala | Ala | Glu | Leu | Met | Met | Ser | Cys | Phe | Arg | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ala | Ser | Asp | Thr | Arg | Ala | Gly | Ile | Glu | Asp | Ser | Lys | Lys | Trp | Gly |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Met | Leu | Phe | Leu | Val | Asn | Gln | Leu | Phe | Lys | Ile | Tyr | Phe | Lys | Ile | Asn |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Lys | Leu | His | Leu | Cys | Lys | Pro | Leu | Ile | Arg | Ala | Ile | Asp | Ser | Ser | Asn |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Leu | Lys | Asp | Asp | Tyr | Ser | Thr | Ala | Gln | Arg | Val | Thr | Tyr | Lys | Tyr | Tyr |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Gly | Arg | Lys | Ala | Met | Phe | Asp | Ser | Asp | Phe | Lys | Gln | Ala | Glu | Glu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Tyr | Leu | Ser | Phe | Ala | Phe | Glu | His | Cys | His | Arg | Ser | Ser | Gln | Lys | Asn |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | Arg | Met | Ile | Leu | Ile | Tyr | Leu | Leu | Pro | Val | Lys | Met | Leu | Leu | Gly |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| His | Met | Pro | Thr | Val | Glu | Leu | Leu | Lys | Lys | Tyr | His | Leu | Met | Gln | Phe |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ala | Glu | Val | Thr | Arg | Ala | Val | Ser | Glu | Gly | Asn | Leu | Leu | Leu | Leu | His |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Glu | Ala | Leu | Ala | Lys | His | Glu | Ala | Phe | Phe | Ile | Arg | Cys | Gly | Ile | Phe |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |
| Leu | Ile | Leu | Glu | Lys | Leu | Lys | Ile | Ile | Thr | Tyr | Arg | Asn | Leu | Phe | Lys |
| 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Lys | Val | Tyr | Leu | Leu | Leu | Lys | Thr | His | Gln | Leu | Ser | Leu | Asp | Ala | Phe |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Val | Ala | Leu | Lys | Phe | Met | Gln | Val | Glu | Asp | Val | Asp | Ile | Asp | Glu |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Val | Gln | Cys | Ile | Leu | Ala | Asn | Leu | Ile | Tyr | Met | Gly | His | Val | Lys | Gly |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Tyr | Ile | Ser | His | Gln | His | Gln | Lys | Leu | Val | Val | Ser | Lys | Gln | Asn | Pro |
|     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Phe | Pro | Pro | Leu | Ser | Thr | Val | Cys |     |     |     |     |     |     |     |     |
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 Gly Ser Ser Val Val Ser Glu Ser Ala Val Ser Trp Glu Ala Gly Ala  
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 Arg Ala Val Leu Arg Cys Gln Ser Pro Arg Met Val Trp Thr Gln Asp  
 50 55 60  
 Arg Leu His Asp Arg Gln Arg Val Leu His Trp Asp Leu Arg Gly Pro  
 65 70 75 80

Gly Gly Gly Pro Ala Arg Arg Leu Leu Asp Leu Tyr Ser Ala Gly Glu  
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 Trp Thr Asp Arg His Val Glu Glu Ala Gln Gln Val Val His Trp Asp  
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 Arg Gln Pro Pro Gly Val Pro His Asp Arg Ala Asp Arg Leu Leu Asp  
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 His Leu His His His Tyr Cys Gly Leu His Glu Arg Arg Val Phe His  
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 His Phe Phe Gln Gln Leu Gly Tyr Val Leu Ala Thr Leu Leu Leu Phe  
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cgttttacta ggtgtacttt gtcttaatca tattcctatt tttttataca gctgtgcaac 300  
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| Asn Lys Glu Asn Gly Lys Gln Ile His Met Pro Thr Asp Tyr Ala Glu |     |     |     |
| 35  | 40  | 45  |     |
| Val Thr Val Asp Phe His Cys Trp Met Cys Gly Lys Asn Cys Asn Ser |     |     |     |
| 50  | 55  | 60  |     |
| Glu Lys Gln Trp Gln Gly His Ile Ser Ser Glu Lys His Lys Glu Lys |     |     |     |
| 65  | 70  | 75  | 80  |
| Val Phe His Thr Glu Asp Asp Gln Tyr Cys Trp Gln His Arg Phe Pro |     |     |     |
| 85  | 90  | 95  |     |
| Thr Gly Tyr Phe Ser Ile Cys Asp Arg Tyr Met Asn Gly Thr Cys Pro |     |     |     |
| 100   | 105 | 110 |     |
| Glu Gly Asn Ser Cys Lys Phe Ala His Gly Asn Ala Glu Leu His Glu |     |     |     |
| 115   | 120 | 125 |     |
| Trp Glu Glu Arg Arg Asp Ala Leu Lys Met Lys Leu Asn Lys Ala Arg |     |     |     |
| 130   | 135 | 140 |     |
| Lys Asp His Leu Ile Gly Pro Asn Asp Asn Asp Phe Gly Lys Tyr Ser |     |     |     |
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| Val | Ile | Leu | Gln | Leu | Gln | Pro | Val | Gln | Gln | Gly | Ile | Tyr | Glu | Ala | Gly |
|     |     | 35  |     |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Ser | Glu | Asn | Asn | Thr | Ala | Val | Val | Ala | Val | Glu | Thr | His | Thr | Ile | His |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Ile | Glu | Glu | Gly | Ile | Asp | Thr | Gly | Thr | Ile | Glu | Ala | Asn | Glu | Asp |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Met | Glu | Ile | Ala | Tyr | Pro | Ile | Thr | Cys | Gly | Glu | Ser | Lys | Ala | Ile | Leu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Leu | Trp | Lys | Lys | Phe | Val | Cys | Pro | Gly | Ile | Asn | Val | Lys | Cys | Val | Lys |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Phe | Asn | Asp | Gln | Leu | Ile | Ser | Pro | Lys | His | Phe | Val | His | Leu | Ala | Gly |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Lys | Ser | Thr | Leu | Lys | Asp | Trp | Lys | Arg | Ala | Ile | Arg | Leu | Gly | Gly | Ile |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ile | Ser | Ser | Ala | Arg | Ala | Pro | Val | Pro | Gly | Gln | Gln | Thr | Ser | Val | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln | Thr | Pro | Thr | Ser | Ala | Asp | Gly | Ser | Ile | Thr | Gln | Ile | Ala | Ile | Ser |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Glu | Glu | Ser | Met | Glu | Glu | Ala | Gly | Leu | Glu | Trp | Asn | Ser | Ala | Leu | Thr |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Ile | Ser | Glu | Asp | Thr | Leu | Met | Phe | Trp | Lys | Gly | Ile | Ala | Asp | Val |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gly | Leu | Met | Glu | Glu | Val | Val | Cys | Asn | Ile | Gln | Lys | Glu | Ile | Glu | Glu |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Leu | Leu | Arg | Gly | Val | Gln | Gln | Arg | Leu | Ile | Gln | Ala | Pro | Phe | Gln | Val |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Thr | Asp | Ala | Ala | Val | Leu | Asn | Asn | Val | Ala | His | Thr | Phe | Gly | Leu | Met |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asp | Thr | Val | Lys | Lys | Val | Leu | Asp | Asn | Arg | Arg | Asn | Gln | Val | Glu | Gln |
| 305 |     |     |     |     | 310 |     |     |     | 315 |     |     |     |     |     | 320 |
| Gly | Glu | Glu | Gln | Phe | Leu | Tyr | Thr | Leu | Thr | Asp | Leu | Glu | Arg | Gln | Leu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Glu | Glu | Gln | Lys | Lys | Gln | Gly | Gln | Asp | His | Arg | Leu | Lys | Ser | Gln | Thr |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Val | Gln | Asn | Val | Val | Leu | Met | Pro | Val | Ser | Thr | Pro | Lys | Pro | Pro | Lys |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Arg | Pro | Arg | Leu | Gln | Arg | Pro | Ala | Ser | Thr | Thr | Val | Leu | Ser | Pro | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Pro | Pro | Val | Gln | Gln | Pro | Gln | Phe | Thr | Val | Ile | Ser | Pro | Ile | Thr | Ile |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Thr | Pro | Val | Gly | Gln | Ser | Phe | Ser | Met | Gly | Asn | Ile | Pro | Val | Ala | Thr |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Leu | Ser | Gln | Gly | Ser | Ser | Pro | Val | Thr | Val | His | Thr | Leu | Pro | Ser | Gly |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Pro | Gln | Leu | Phe | Arg | Tyr | Ala | Thr | Val | Val | Ser | Ser | Ala | Lys | Ser | Ser |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Ser | Pro | Asp | Thr | Met | Thr | Ile | His | Pro | Ser | Ser | Ser | Leu | Ala | Leu | Leu |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Ser | Ser | Thr | Ala | Met | Gln | Asp | Gly | Ser | Thr | Leu | Gly | Asn | Met | Thr | Thr |
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|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Arg | Gly | Arg | Lys | Ser | Arg | Arg | Arg | Arg | Asn | Ala | Lys | Ala | Ala | 1   | 5   | 10  | 15  |
| Glu | Glu | Asn | Arg | Asn | Asn | Arg | Lys | Ser | Gln | Ala | Ser | Glu | Ala | Ser | Glu | 20  | 25  | 30  |     |
| Thr | Pro | Met | Ala | Ala | Ser | Val | Ala | Pro | Ser | Thr | Pro | Glu | Tyr | Leu |     | 35  | 40  | 45  |     |
| Ser | Gly | Pro | Glu | Glu | Asp | Thr | Ser | Thr | Leu | Glu | Lys | Ala | Ser | Ser | Thr | 50  | 55  | 60  |     |
| Pro | Ser | Glu | Ala | Ser | Ser | Thr | Ala | Leu | Val | Gln | Lys | Pro | Val | Thr | Arg | 65  | 70  | 75  | 80  |
| Ser | Asn | Phe | Gln | Gly | Thr | Lys | Lys | Ser | Leu | Leu | Met | Ser | Ile | Leu | Ala | 85  | 90  | 95  |     |
| Leu | Ile | Phe | Ile | Met | Gly | Asn | Ser | Ala | Lys | Glu | Ala | Leu | Val | Trp | Lys | 100 | 105 | 110 |     |
| Val | Leu | Gly | Lys | Leu | Gly | Met | Gln | Pro | Gly | Arg | Gln | His | Ser | Ile | Phe | 115 | 120 | 125 |     |
| Gly | Asp | Pro | Lys | Lys | Val | Val | Thr | Glu | Glu | Phe | Val | Arg | Arg | Gly | Tyr | 130 | 135 | 140 |     |
| Leu | Ile | Tyr | Lys | Pro | Val | Pro | Arg | Ser | Ser | Pro | Val | Glu | Tyr | Glu | Phe | 145 | 150 | 155 | 160 |
| Phe | Trp | Gly | Pro | Arg | Ala | His | Val | Glu | Ser | Ser | Lys | Leu | Lys | Val | Met | 165 | 170 | 175 |     |
| His | Phe | Val | Ala | Arg | Val | Arg | Asn | Arg | Cys | Ser | Lys | Asp | Trp | Pro | Cys | 180 | 185 | 190 |     |
| Asn | Tyr | Asp | Trp | Asp | Ser | Asp | Asp | Ala | Glu | Val | Glu | Ala | Ile | Leu |     | 195 | 200 | 205 |     |
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<212> DNA  
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 <213> Homo sapiens

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 65 70 75 80  
 Gln Leu Gln Glu Met Ala Gln Leu Arg Ile Lys His Gln Glu Glu Leu  
 85 90 95

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Leu Asn Asn Gln Met Gln Arg Lys Asp Arg Glu Met Gln Lys Glu Leu  
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Ala Glu Ala Ala Lys Glu Pro Leu Pro Val Glu Gln Asp Asp Asp Ile  
130 135 140  
Glu Val Ile Val Asp Glu Thr Ser Asp His Thr Glu Glu Thr Ser Pro  
145 150 155 160  
Val Arg Ala Ile Ser Arg Ala Ala Thr Lys Arg Leu Ser Gln Pro Ala  
165 170 175  
Gly Gly Leu Leu Asp Ser Val Thr Asn Ile Phe Gly Arg Arg Ser Val  
180 185 190  
Ser Ser Phe Pro Val Pro Gln Asp Asn Val Asp Thr His Pro Gly Ser  
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Gly Lys Glu Val Arg Val Pro Ala Thr Ala Leu Cys Val Phe Asp Ala  
210 215 220  
His Asp Gly Glu Val Asn Ala Val Gln Phe Ser Pro Gly Ser Arg Leu  
225 230 235 240  
Leu Ala Thr Gly Gly Met Asp Arg Arg Val Lys Leu Trp Glu Val Phe  
245 250 255  
Gly Glu Lys Cys Glu Phe Lys Gly Ser Leu Ser Gly Ser Asn Ala Gly  
260 265 270  
Ile Thr Ser Ile Glu Phe Asp Ser Ala Gly Ser Tyr Leu Leu Ala Ala  
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 <213> Homo sapiens

<400> 10538

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | His | Asn | Pro | Asn | Met | Thr | His | Leu | Lys | Ile | Asn | Leu | Pro | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Thr | Ala | Leu | Pro | Pro | Leu | Trp | Val | Arg | Cys | Asp | Ser | Ser | Asp | Pro | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Thr | Cys | Trp | Leu | Gly | Ala | Glu | Leu | Ile | Thr | Thr | Asn | Asn | Ser | Ile |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Thr | Gly | Ile | Val | Leu | Tyr | Val | Val | Ser | Cys | Lys | Ala | Asp | Lys | Asn | Tyr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Val | Asn | Leu | Glu | Asn | Leu | Lys | Asn | Leu | His | Lys | Lys | Arg | His | His |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Leu | Ser | Thr | Val | Thr | Ser | Lys | Gly | Phe | Ala | Gln | Tyr | Glu | Leu | Phe | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ser | Ser | Ala | Leu | Asp | Asp | Thr | Ile | Thr | Ala | Ser | Gln | Thr | Ala | Ile | Ala |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Leu | Asp | Ile | Ser | Trp | Ser | Pro | Val | Asp | Glu | Ile | Leu | Gln | Ile | Pro | Pro |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Leu | Ser | Ser | Thr | Ala | Ile |     |     |     |     |     |     |     |     |     |     |
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 <213> Homo sapiens

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          35             40             45
Leu Gly Leu Gly Leu Trp Arg Arg Gly Thr Leu Cys Leu Gly Ser Leu
          50             55             60
Thr Ala Pro Pro Gly Ser Pro Glu Arg Gly Thr Gly Gly Glu Gly Gly
          65             70             75             80
Gly Ser Trp Ala Pro Cys Ala Ala Gly Pro Arg Gly Ala Arg Val Ala
          85             90             95
Ala Gly Pro Ala Gly Pro Asp Arg Val Asn Gly Arg Ala Trp Pro Val
          100             105             110
Pro Arg Gly Ala Pro Ala Ala Thr Ala Leu Ala Ala Gly Thr Gly Val
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Leu Arg Gly Arg Ser Leu Pro Phe  
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<210> 10542  
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<212> DNA  
<213> Homo sapiens

<400> 10542

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gcttcagagc gacgtttgco ctgcgacaca ggccgggccgg ctctcctctg tctttatatt 180
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| Ser | Ala | Thr | Leu | Thr | Trp | Arg | Gln | Trp | Pro | Pro | Thr | Gln | Glu | Glu | Ile |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | His | Gly | Phe | His | Lys | Val | Ser | Leu | Val | Ser | Gly | Ala | Gln | Met | Glu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Pro | Gln | Lys | Glu | Met | Phe | Glu | Phe | Ser | Arg | Arg | Glu | Glu | Val | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Val | Asn | Gly | Phe | Ala | Thr | Gln | Glu | Glu | Glu | Thr | Val | Asn | Cys | Gln | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Pro | Arg | Asp | Thr | Ala | Gly | Ser | Lys | Asn | Phe | Gln | Ser | His | Gly | Pro | Ile |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Ser | Lys | Lys | Tyr | Ile | Pro | Pro | Pro | Lys | Glu | Lys | Arg | Pro | Glu | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Leu | Lys | Glu | Ala | Val | Asp | Gln | Ser | Asp | Gly | Ser | Arg | Gln | Ala | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Thr | Glu | Pro | Pro | Cys | Val | Gly | Ala | Met | Ala | Arg | Thr | Glu | Leu | Leu |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Pro | Leu | Pro | Gly | Pro | Arg | Glu | Pro | Ser | Pro | His | Pro | Gly | Val | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Val | Arg | Thr | Thr | Thr | Val | Val | Gly | Gly | His | Val | Asp | Arg | Arg | Met |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Ser | Ser | Val | Thr | Val | Arg | Pro | Val | Ser | Ser | Gly | Glu | Ala | Leu | Pro |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Arg | Gly | Arg | Gln | Val | Ser | Arg | Met | Val | Pro | Pro | Val | Val | Val | Gly | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Pro | Pro | Gly | Ser | Pro | Ser | Arg | Ser | Gln | Ala | Val | Lys | Val | Leu | Ser | Asn |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Val | Pro | Ala | Gly | His | Ser | Pro | Pro | Ala | Ser | His | Leu | Pro | Arg | Pro |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Leu | Arg | Gln | Leu | Pro | Glu | Thr | Gly | Thr | Ala | Glu | Leu | Lys | Asp | Ser |
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| Ser | Ala | Leu | Ala | Ser | Thr | Gly | Ile | Pro | Ala | Ser | Ala | His | Leu | Pro | Lys |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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 Pro Ala Lys Gln Pro Val Val Pro Thr His Pro Gly Ala Arg Leu Thr  
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<211> 116

<212> PRT

<213> Homo sapiens

<400> 10549

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Gly | Leu | Arg | Ser | Leu | Ala | Ala | Thr | Thr | Leu | Ala | Leu | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Phe | Val | Phe | Leu | Gly | Asn | Ser | Ser | Cys | Ala | Pro | Gln | Arg | Leu | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Arg | Arg | Asn | Trp | Thr | Pro | Gln | Ala | Met | Leu | Tyr | Leu | Lys | Gly | Ala |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Gln | Gly | Arg | Arg | Phe | Ile | Ser | Asp | Gln | Ser | Arg | Arg | Lys | Asp | Leu | Ser |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Asp | Arg | Pro | Leu | Pro | Glu | Arg | Arg | Ser | Pro | Asn | Pro | Gln | Leu | Leu | Thr |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ile | Pro | Glu | Ala | Ala | Thr | Ile | Leu | Leu | Ala | Ser | Leu | Gln | Lys | Ser | Pro |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Glu | Asp | Glu | Glu | Lys | Asn | Phe | Asp | Gln | Thr | Arg | Phe | Leu | Glu | Asp | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Leu | Asn | Trp |     |     |     |     |     |     |     |     |     |     |     |     |
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<210> 10550

<211> 1330

<212> DNA

<213> Homo sapiens

<400> 10550

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<212> PRT  
<213> Homo sapiens

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Pro Thr Ala Ser Gly Leu Ser Phe Ser Ala Ala Thr Leu Thr Phe Ser  
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<210> 10554  
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 <212> PRT  
 <213> Homo sapiens

<400> 10554

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Thr | Gly | Ser | Asn | Met | Ser | Asp | Ala | Leu | Ala | Asn | Ala | Val | Cys | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Cys | Gln | Ala | Arg | Phe | Ser | Pro | Ala | Glu | Arg | Ile | Val | Asn | Ser | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Glu | Leu | Tyr | His | Glu | His | Cys | Phe | Val | Cys | Ala | Gln | Cys | Phe | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Phe | Pro | Glu | Gly | Leu | Phe | Tyr | Glu | Phe | Glu | Gly | Arg | Lys | Tyr | Cys |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | His | Asp | Phe | Gln | Met | Leu | Phe | Ala | Pro | Cys | Cys | Gly | Ser | Cys | Gly |
|     |     | 65  |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Phe | Ile | Ile | Gly | Arg | Val | Ile | Lys | Ala | Lys | Cys | Glu | Lys | Pro | Phe |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Leu | Gly | His | Arg | His | Tyr | Glu | Lys | Lys | Gly | Leu | Ala | Tyr | Cys | Glu | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| His | Tyr | Asn | Gln | Leu | Phe | Gly | Asp | Val | Cys | Tyr | Asn | Cys | Ser | His | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Glu | Gly | Asp | Val | Val | Ser | Ala | Leu | Asn | Lys | Ala | Trp | Cys | Val | Ser |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Cys | Phe | Ser | Cys | Ser | Thr | Cys | Asn | Ser | Lys | Leu | Thr | Leu | Lys | Asn | Lys |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Phe | Val | Glu | Phe | Asp | Met | Lys | Pro | Val | Cys | Lys | Arg | Cys | Tyr | Glu | Lys |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Phe | Pro | Leu | Glu | Leu | Lys | Lys | Arg | Leu | Lys | Lys | Leu | Ser | Glu | Leu | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Arg | Lys | Ala | Gln | Pro | Lys | Ala | Thr | Asp | Leu | Asn | Ser | Ala |     |     |
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 <211> 1561  
 <212> DNA  
 <213> Homo sapiens

<400> 10555

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| ttccaattag | aattattttc  | agccaaatta | tcattttaagt | gtgagagtaa | aataaagaca  | 180  |
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| ccattctcca | gcctcagcct  | cccaagtagc | cgggactaca  | ggcgcccacc | accatgcctg  | 360  |
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| caatctcctg | acctcgtgat  | ctgcctgcct | cggcctccca  | aagtgttagg | attacagggtg | 480  |
| tgagccaccg | cgcccggccg  | ataatgtgtt | gttttaaggc  | attaattttg | tggtagacata | 540  |
| aaaagtaatt | tgtgtgtaca  | tacatgcata | tatacatata  | tatgtacaca | cacatatatt  | 600  |
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| tataatttta | tttttcttta  | acaatactgt | taccttagga  | cttctttttc | ttttttctt   | 840  |
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<210> 10556

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<211> 1543  
<212> DNA  
<213> Homo sapiens

<400> 10556

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<212> DNA  
<213> Homo sapiens

<400> 10557

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 <222> (1507).. (1776)

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 <212> PRT  
 <213> Homo sapiens

<400> 10559

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Ile | Val | His | His | Arg | Thr | His | Thr | Gly | Glu | Arg | Pro | Tyr | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys | Asp | Glu | Cys | Glu | Lys | Ala | Tyr | Phe | Tyr | Met | Ser | Cys | Leu | Val | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| His | Lys | Arg | Ile | His | Ser | Arg | Glu | Lys | Arg | Gly | Asp | Ser | Val | Lys | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     | 45  |     |     |     |     |
| Glu | Asn | Pro | Ser | Thr | Ala | Ser | His | Ser | Leu | Ser | Pro | Ser | Glu | His | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gln | Gly | Lys | Ser | Pro | Val | Asn | Met | Val | Thr | Val | Ala | Met | Val | Ala | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gln | Cys | Glu | Phe | Ala | His | Ile | Leu | His | Ser |     |     |     |     |     |     |
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<400> 10560

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<210> 10561  
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 <212> PRT  
 <213> Homo sapiens

<400> 10561  
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 Arg Gly Thr Lys Ala Gln Lys Ala Ala Ser Trp Arg Gly Gly Ser Glu  
 50 55 60  
 Val Ser Glu His Pro Met Lys Ser His Ser Ala Trp Pro Trp Ile Phe  
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<212> DNA  
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<212> PRT

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<213> Homo sapiens

<400> 10563

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Leu Tyr Gln Phe Leu Met Asn Glu Val Val His Thr Ser Pro Thr Ile
          35           40           45
Gly Ser Asn Val Glu Glu Ile Val Val Lys Asn Thr His Phe Leu Met
          50           55           60
Trp Asp Ile Gly Gly Gln Glu Ser Leu Arg Ser Ser Trp Asn Thr Tyr
 65           70           75           80
Tyr Ser Asn Thr Glu Phe Ile Ile Leu Val Val Asp Ser Ile Asp Arg
          85           90           95
Glu Arg Leu Ala Ile Thr Lys Glu Glu Leu Tyr Arg Met Leu Ala His
          100          105          110
Glu Asp Leu Arg Lys Ala Ala Val Leu Ile Phe Ala Asn Lys Gln Asp
          115          120          125
Met Lys Gly Cys Met Thr Ala Ala Glu Ile Ser Lys Tyr Leu Thr Leu
          130          135          140
Ser Ser Ile Lys Asp His Pro Trp His Ile Gln Ser Cys Cys Ala Leu
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<211> 1534

<212> DNA

<213> Homo sapiens

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<222> (179).. (1324)

<400> 10564

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 <212> PRT  
 <213> Homo sapiens

<400> 10565

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| Met | Ala | Asn | Glu | Arg | Met | Asn | Leu | Met | Asn | Met | Ala | Lys | Leu | Ser | Ile |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Lys | Gly | Leu | Ile | Glu | Ser | Ala | Leu | Asn | Leu | Gly | Arg | Thr | Leu | Asp | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Tyr | Ala | Pro | Leu | Gln | Gln | Phe | Phe | Val | Val | Met | Glu | His | Cys | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     | 45  |     |     |     |     |
| Lys | His | Gly | Leu | Lys | Ala | Lys | Lys | Thr | Phe | Leu | Gly | Gln | Asn | Lys | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Trp | Gly | Pro | Leu | Glu | Leu | Val | Glu | Lys | Leu | Val | Pro | Glu | Ala | Ala |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Ile | Thr | Ala | Ser | Val | Lys | Asp | Leu | Pro | Gly | Leu | Lys | Thr | Pro | Val |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Gly | Arg | Gly | Arg | Ala | Trp | Leu | Arg | Leu | Ala | Leu | Met | Gln | Lys | Lys | Leu |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Ser | Glu | Tyr | Met | Lys | Ala | Leu | Ile | Asn | Lys | Lys | Glu | Leu | Leu | Ser | Glu |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Phe | Tyr | Glu | Pro | Asn | Ala | Leu | Met | Met | Glu | Glu | Glu | Gly | Ala | Ile | Ile |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Gly | Leu | Leu | Val | Gly | Leu | Asn | Val | Ile | Asp | Ala | Asn | Phe | Cys | Met |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Lys | Gly | Glu | Asp | Leu | Asp | Ser | Gln | Val | Gly | Val | Ile | Asp | Phe | Ser | Met |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Tyr | Leu | Lys | Asp | Gly | Asn | Ser | Ser | Lys | Gly | Thr | Glu | Gly | Asp | Gly | Gln |

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|             |                     |                 |                 |  |     |
|-------------|---------------------|-----------------|-----------------|--|-----|
|             | 180                 |                 | 185             |  | 190 |
| Ile Thr Ala | Ile Leu Asp Gln Lys | Asn Tyr Val Glu | Glu Leu Asn Arg |  |     |
| 195         | 200                 | 205             |                 |  |     |
| His Leu Asn | Ala Thr Val Asn Asn | Leu Gln Ala Lys | Val Asp Ala Leu |  |     |
| 210         | 215                 | 220             |                 |  |     |
| Glu Lys Ser | Asn Thr Lys Leu Thr | Glu Glu Leu Ala | Val Ala Asn Asn |  |     |
| 225         | 230                 | 235             | 240             |  |     |
| Arg Ile Ile | Thr Leu Gln Glu Glu | Met Glu Arg Val | Lys Glu Glu Ser |  |     |
|             | 245                 | 250             | 255             |  |     |
| Ser Tyr Ile | Leu Glu Ser Asn Arg | Lys Gly Pro Lys | Gln Asp Arg Thr |  |     |
|             | 260                 | 265             | 270             |  |     |
| Ala Glu Gly | Gln Ala Leu Ser Glu | Ala Arg Lys His | Leu Lys Glu Glu |  |     |
|             | 275                 | 280             | 285             |  |     |
| Thr Gln Leu | Arg Leu Asp Val Glu | Lys Glu Leu Glu | Met Gln Ile Ser |  |     |
|             | 290                 | 295             | 300             |  |     |
| Met Arg Gln | Glu Met Glu Leu Ala | Met Lys Met Leu | Glu Lys Asp Val |  |     |
| 305         | 310                 | 315             | 320             |  |     |
| Cys Glu Lys | Gln Asp Ala Leu Val | Ser Leu Arg Gln | Gln Leu Asp Asp |  |     |
|             | 325                 | 330             | 335             |  |     |
| Leu Arg Ala | Leu Lys His Glu Leu | Ala Phe Lys Leu | Gln Ser Ser Asp |  |     |
|             | 340                 | 345             | 350             |  |     |
| Leu Gly Val | Lys Gln Lys Ser Glu | Leu Asn Ser Arg | Leu Glu Glu Lys |  |     |
|             | 355                 | 360             | 365             |  |     |
| Thr Asn Gln | Met Ala Ala Thr     | Ile Lys Gln Leu | Glu Gln Arg     |  |     |
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 <211> 1813  
 <212> DNA  
 <213> Homo sapiens

<400> 10566  
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245 250 255

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Gln | Met | Ser | Met | Asp | Asp | Trp | Pro | Glu | Met | Lys | Lys | Lys | Phe | Ala |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Asp | Val | Phe | Ala | Lys | Lys | Thr | Lys | Ala | Glu | Trp | Cys | Gln | Ile | Phe | Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gly | Thr | Asp | Ala | Cys | Val | Thr | Pro | Val | Leu | Thr | Phe | Glu | Glu | Val | Val |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| His | His | Asp | His | Asn | Lys | Glu | Arg | Gly | Ser | Phe | Ile | Thr | Ser | Glu | Glu |
| 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     |     | 320 |
| Gln | Asp | Val | Ser | Pro | Arg | Pro | Ala | Pro | Leu | Leu | Leu | Asn | Thr | Pro | Ala |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Ile | Pro | Ser | Phe | Lys | Arg | Asp | Pro | Phe | Ile | Gly | Glu | His | Thr | Glu | Glu |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Ile | Leu | Glu | Glu | Phe | Gly | Phe | Ser | Arg | Glu | Glu | Ile | Cys | Gln | Leu | Asn |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |
| Ser | Asp | Lys | Ile | Ile | Glu | Ser | Asn | Lys | Val | Lys | Ala | Ser | Leu |     |     |
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 <222> (24).. (1577)

<400> 10569

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| aatctg  | gcat  | acgaatt | cat  | acaacag | aat   | ttgagt  | ggcc  | taagaat | atg   | atgccg  | tcta  | 240  |
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| tcattg  | agct  | ctatgat | tagg | gggaac  | attg  | ttctta  | caga  | ttatgag | tac   | gtaatt  | tttaa | 420  |
| atattc  | taag  | gtttcga | act  | gatgagg | cag   | atgatgt | ttaa  | atttgct | gtt   | cgtga   | acgct | 480  |
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| acaagg  | cgg   | g       | g    | g       | g     | g       | g     | g       | g     | g       | g     | 960  |
| tacaac  | agga  | aaagca  | agca | ttgaaga | aat   | tagata  | aatgt | tcgaa   | aggat | cacgaa  | aaca  | 1020 |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Asn | Lys | Thr | Tyr | Leu | Ile | Arg | Leu | Gln | Lys | Pro | Asp | Phe | Lys | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Leu | Leu | Leu | Glu | Ser | Gly | Ile | Arg | Ile | His | Thr | Thr | Glu | Phe | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
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|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| His | Leu | Lys | Ser | Arg | Arg | Leu | Val | Ser | Ala | Lys | Gln | Leu | Gly | Val | Asp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Ile | Val | Asp | Phe | Gln | Phe | Gly | Ser | Asp | Glu | Ala | Ala | Tyr | His | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Ile | Glu | Leu | Tyr | Asp | Arg | Gly | Asn | Ile | Val | Leu | Thr | Asp | Tyr | Glu |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Tyr | Val | Ile | Leu | Asn | Ile | Leu | Arg | Phe | Arg | Thr | Asp | Glu | Ala | Asp | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Lys | Phe | Ala | Val | Arg | Glu | Arg | Tyr | Pro | Leu | Asp | His | Ala | Arg | Ala |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ala | Glu | Pro | Leu | Leu | Thr | Leu | Glu | Arg | Leu | Thr | Glu | Ile | Val | Ala | Ser |
|     |     |     |     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     | 190 |     |     |     |
| Tyr | Gly | Pro | Ala | Leu | Ile | Glu | His | Cys | Leu | Leu | Glu | Asn | Gly | Phe | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
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|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Val | Leu | Val | Ser | Leu | Gln | Lys | Ala | Glu | Asp | Tyr | Met | Lys | Thr | Thr | Ser |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asn | Phe | Ser | Gly | Lys | Gly | Tyr | Ile | Ile | Gln | Lys | Arg | Glu | Ile | Lys | Pro |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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Ile Leu Trp Phe Gln Leu Ala Leu Cys Phe Gly Pro Ala Gln Leu Thr
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Gly Gly Phe Asp Asp Leu Gln Val Cys Ala Asp Pro Gly Ile Pro Glu
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Asn Gly Phe Arg Thr Pro Ser Gly Gly Val Phe Phe Glu Gly Ser Val

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| Arg Leu Cys Leu Lys His Phe Asn Gly Thr Leu Gly Trp Ile Pro Ser |     |    |     |    |     |    |
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| Asp Asn Ser Ile Cys Val Gln Glu Asp Cys Arg Ile Pro Gln Ile Glu |     |    |     |    |     |    |
|   | 115 |    | 120 |    | 125 |    |
| Asp Ala Glu Ile His Asn Lys Thr Tyr Arg His Gly Glu Lys Leu Ile |     |    |     |    |     |    |
|   | 130 |    | 135 |    | 140 |    |
| Ile Thr Cys His Glu Gly Phe Lys Ile Arg Tyr Pro Asp Leu His Asn |     |    |     |    |     |    |
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| Met Val Ser Leu Cys Arg Asp Asp Gly Thr Trp Asn Asn Leu Pro Ile |     |    |     |    |     |    |
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| Cys Gln Gly Cys Leu Arg Pro Leu Ala Pro Gln His Thr Pro Ala Gln |     |    |     |    |     |    |
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| Gly Thr Arg Thr Gln Ala Gln Gly Ser Gln Lys Pro Val Thr Ala Ser |     |    |     |    |     |    |
|   | 195 |    | 200 |    | 205 |    |
| Gln Ala Leu Leu Ser Cys Ser Lys Val Cys Ile His Leu Pro Gly Ala |     |    |     |    |     |    |
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 atttctccct cctctcttcc ctctctcacat ctcttatatg agcacagtaa ttatgacctt 1140

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|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| tttgttttgg | ctacaacttg | attgaaacaa  | gttcaaaatt | taaacaagtt | catacaagtt  | 1200 |
| tttaaaaatt | ctcaactggg | agcttgcttg  | ctgtgcgtct | tccaaactaa | agcctgcaag  | 1260 |
| cgccacaatt | ctaagtgccg | ccttccattt  | tttttcagta | tgttttcact | ggcttatgtt  | 1320 |
| ttcagatatg | attttccttt | ttcgcatata  | tggtttaata | aatgggggat | aatttttttt  | 1380 |
| tttgtaaatc | cgtgcttgtg | ccaagtctca  | tatttccttg | ccatctcaga | attatctttt  | 1440 |
| taccaccact | gtttataaaa | tttccttaga  | gactttttga | agggaaaata | gagcaacagg  | 1500 |
| gaaaaatgaa | agaaatgtct | tggttactga  | gctctaaata | gacaggtttg | atggcacttc  | 1560 |
| tcatgataca | ttttagttaa | tcttataaaa  | gcaaacaggc | aaacatgagt | gtaaattaaa  | 1620 |
| gacaaaaaga | aaactctggg | tttatatttg  | agaacacgtg | aaaaatcatg | ggtcaacata  | 1680 |
| aaatcttgag | aaccttctac | tttctctggg  | aaagcattat | atagtgggtg | attagtttag  | 1740 |
| aaagtcagct | atgattttgc | ctatagttct  | agttattagc | tttgggggtt | tcttgtactt  | 1800 |
| taagacatac | ctgtaaattg | aacctatttg  | aattatattc | cactgtatgt | gtattatggc  | 1860 |
| tcttttccta | ttagagcaac | ttgtgtttcc  | ctgataatgt | gtacattttt | taggcatgta  | 1920 |
| cttaatagtt | cacaatgttc | taaatttgga  | aggacttaaa | aaaaaaactt | gtttaaattt  | 1980 |
| ccatctgttt | tgtaatatct | agctctatat  | gtaaatgatg | ggtttggttg | tattttaaatt | 2040 |
| gaatacaact | tgaatgtaat | taaagtgtctg | ttttttggaa | gcgataaact | ttaattatta  | 2100 |
| aaatgaaatt | ctatt      |             |            |            |             | 2115 |

<210> 10574  
 <211> 1459  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (11).. (1252)

|             |            |            |            |            |            |      |
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| <400> 10574 |            |            |            |            |            |      |
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| tgctcttctt  | ccagctgtgc | aacaagagca | ggagttctat | gagcagaaaa | tcaaagagat | 120  |
| ggcagagcat  | gaagactttt | tgcttgccct | acagatgaat | gaagaacagt | atcaaaagga | 180  |
| tgccagctg   | attgagtgtc | gctgctgcta | tggggaattt | ccattcgagg | agctgacgca | 240  |
| gtgcgcagat  | gctcacttgt | tctgcaaaga | gtgtctcatc | agatatgccc | aagaggcagt | 300  |
| ctttggatct  | ggaaagttag | agctcagctg | catggaaggc | agctgcacgt | gttcgttccc | 360  |
| aaccagttag  | ctggagaagg | tgctccccc  | gaccatcctg | tataagtact | atgagcgaaa | 420  |
| agccgaggag  | gaggttgccg | cagcctacgc | cgacgagctt | gtcaggtgcc | cgctcctgtg | 480  |
| ctttccggct  | ctgttggaac | gtgatgtgaa | gaggttcagc | tgctcctaac | ctcactgccg | 540  |
| aaaggaaaacc | ttaggaagt  | gtcagggact | ctggaaagaa | cataatggcc | tcacctgtga | 600  |
| agagctggct  | gaaaaagacg | acatcaagta | ccgtacctct | attgaagaaa | aaatgactgc | 660  |
| tgcccgcat   | agaaaatgcc | acaagtgtgg | gactggcctc | atcaaatctg | aaggctgcaa | 720  |
| ccgcatgtct  | tgccgctgtg | gtgccagat  | gtgctacctc | tgctgagttt | ctattaatgg | 780  |
| atatgaccat  | ttctgccaac | atccccgctc | accaggagcc | ccttgccagg | agtgttcaag | 840  |
| atgctctctc  | tggaccgatc | ccactgaaga | tgatgagaag | cttattgagg | aaatccagaa | 900  |
| ggaggctgaa  | gaggaacaga | aaagaaagaa | tggagagaac | accttcaaac | gcattggacc | 960  |
| cccgtggag   | aagcctgtgg | agaaggtgca | gagggtggag | gccctcccga | ggcccgttcc | 1020 |
| gcagaacctg  | ccacagccac | agatgccacc | ctatgccttc | gcgcacccac | ccttccccct | 1080 |
| gcctcccgtg  | cggcctgtgt | tcaacaactt | cccactcaac | atggggccta | tcccagcccc | 1140 |

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gtacgtgccc cctctgcccc acgtgcggggt caactatgac ttcggtccca tccacatgcc 1200
cctggagcac aacctgcccc tgcactttgg cccccagccg cggcatcgct tctgatggcc 1260
ccgaatcccc attgagcagc acaaagcccg ttgggggtag gagtgtggat ggagaaccct 1320
cccccaaggc tgggtgtctgt accattgcat cctaagtcag cttgaagggt aggctggttt 1380
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<210> 10575

<211> 414

<212> PRT

<213> Homo sapiens

<400> 10575

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 20           25           30
Lys Ile Lys Glu Met Ala Glu His Glu Asp Phe Leu Leu Ala Leu Gln
 35           40           45
Met Asn Glu Glu Gln Tyr Gln Lys Asp Gly Gln Leu Ile Glu Cys Arg
 50           55           60
Cys Cys Tyr Gly Glu Phe Pro Phe Glu Glu Leu Thr Gln Cys Ala Asp
 65           70           75           80
Ala His Leu Phe Cys Lys Glu Cys Leu Ile Arg Tyr Ala Gln Glu Ala
 85           90           95
Val Phe Gly Ser Gly Lys Leu Glu Leu Ser Cys Met Glu Gly Ser Cys
100          105          110
Thr Cys Ser Phe Pro Thr Ser Glu Leu Glu Lys Val Leu Pro Gln Thr
115          120          125
Ile Leu Tyr Lys Tyr Tyr Glu Arg Lys Ala Glu Glu Glu Val Ala Ala
130          135          140
Ala Tyr Ala Asp Glu Leu Val Arg Cys Pro Ser Cys Ser Phe Pro Ala
145          150          155          160
Leu Leu Asp Ser Asp Val Lys Arg Phe Ser Cys Pro Asn Pro His Cys
165          170          175
Arg Lys Glu Thr Cys Arg Lys Cys Gln Gly Leu Trp Lys Glu His Asn
180          185          190
Gly Leu Thr Cys Glu Glu Leu Ala Glu Lys Asp Asp Ile Lys Tyr Arg
195          200          205
Thr Ser Ile Glu Glu Lys Met Thr Ala Ala Arg Ile Arg Lys Cys His
210          215          220
Lys Cys Gly Thr Gly Leu Ile Lys Ser Glu Gly Cys Asn Arg Met Ser
225          230          235          240
Cys Arg Cys Gly Ala Gln Met Cys Tyr Leu Cys Arg Val Ser Ile Asn
245          250          255
Gly Tyr Asp His Phe Cys Gln His Pro Arg Ser Pro Gly Ala Pro Cys
260          265          270

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09629469.072800



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Glu | Cys | Ser | Arg | Cys | Ser | Leu | Trp | Thr | Asp | Pro | Thr | Glu | Asp | Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Glu | Lys | Leu | Ile | Glu | Glu | Ile | Gln | Lys | Glu | Ala | Glu | Glu | Glu | Gln | Lys |
|     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |
| Arg | Lys | Asn | Gly | Glu | Asn | Thr | Phe | Lys | Arg | Ile | Gly | Pro | Pro | Leu | Glu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Pro | Val | Glu | Lys | Val | Gln | Arg | Val | Glu | Ala | Leu | Pro | Arg | Pro | Val |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Pro | Gln | Asn | Leu | Pro | Gln | Pro | Gln | Met | Pro | Pro | Tyr | Ala | Phe | Ala | His |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Pro | Pro | Phe | Pro | Leu | Pro | Pro | Val | Arg | Pro | Val | Phe | Asn | Asn | Phe | Pro |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Leu | Asn | Met | Gly | Pro | Ile | Pro | Ala | Pro | Tyr | Val | Pro | Pro | Leu | Pro | Asn |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Val | Arg | Val | Asn | Tyr | Asp | Phe | Gly | Pro | Ile | His | Met | Pro | Leu | Glu | His |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Asn | Leu | Pro | Met | His | Phe | Gly | Pro | Gln | Pro | Arg | His | Arg | Phe |     |     |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     |     |     |

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 <211> 1853  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (37).. (1359)

<400> 10576

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| gagtcggcgc | tcagctgctt | ctctttcaac | caggactgca | catccctagc | aactggaact  | 120  |
| aaagccgggt | ataagctgtt | ttctctgagt | tctgtggagc | agctggatca | agtccacgga  | 180  |
| agcaatgaaa | tcccggacgt | ctacatcgtg | gagcgctct  | tctccagcag | cctgggtggtg | 240  |
| gtagtcagtc | acacaaaacc | acggcagatg | aacgtgtatc | acttcaagaa | aggcacagag  | 300  |
| atctgtaatt | acagctactc | cagcaacatc | ttgtccataa | ggctgaaccg | gcaaaggctg  | 360  |
| ctggtttgcc | tagaagagtc | catttatatt | cacaacatta | aagacatgaa | gctgttgaag  | 420  |
| accctcctgg | atattcctgc | aaacccaaca | ggtctatgtg | ctctctctat | caaccattcc  | 480  |
| aattcctacc | tggcctatcc | tggaagcctg | acttcagggg | agattgtgct | ttatgatgga  | 540  |
| aactccctga | aaacagtctg | cactattgct | gcccattgag | gaacactagc | tgccatcacc  | 600  |
| ttcaatgcct | caggctccaa | actagcaagt | gcgtctgaaa | aaggcacagt | catccgggtg  | 660  |
| ttctctgtcc | ctgatgggca | aaagctctat | gagttccgga | gagggatgaa | aaggatatgtg | 720  |
| acaatcagct | ctctagtgtt | cagtatggat | tcacaattcc | tctgcgcctc | cagtaacacc  | 780  |
| gagacggtac | acatcttcaa | gctggaacag | gtcaccaaca | gtcgaccaga | agagccttcg  | 840  |
| acctggagtg | gctacatggg | aaagatgttt | atggctgcta | ccaactacct | ccctaccag   | 900  |
| gtgtcagaca | tgatgcatca | ggacagggtc | tttgccactg | cacgottgaa | cttctccgga  | 960  |
| cagaggaaca | tctgtacctt | ctcaacgata | cagaagtgtc | cacgggtgct | agttgcgtca  | 1020 |
| tccagtggac | acctttatat | gtacaatttg | gatactcagg | atggaggaga | gtgtgtctta  | 1080 |

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atcaaaaccc accgcttgct tggctcagga acaacagaag agaataaaga aaatgacctc 1140
agaccttcct tacctcagtc ttatgcagcg accgtagcca gaccaagtgc atcttcagcc 1200
tccacggtgc caggttattc tgaggacggc ggggcgctgc gaggagaagt tattcctgaa 1260
catgagtttg cgacgggacc agtgtgtctt gatgatgaga atgagtttcc tcctataatc 1320
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cttagagaga gactctttta gccaggcaaa gtcttttttg gctgtggctg gaataaatca 1800
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<210> 10577

<211> 441

<212> PRT

<213> Homo sapiens

<400> 10577

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Phe Asn Gln Asp Cys Thr Ser Leu Ala Thr Gly Thr Lys Ala Gly Tyr
          20          25          30
Lys Leu Phe Ser Leu Ser Ser Val Glu Gln Leu Asp Gln Val His Gly
          35          40          45
Ser Asn Glu Ile Pro Asp Val Tyr Ile Val Glu Arg Leu Phe Ser Ser
          50          55          60
Ser Leu Val Val Val Val Ser His Thr Lys Pro Arg Gln Met Asn Val
          65          70          75          80
Tyr His Phe Lys Lys Gly Thr Glu Ile Cys Asn Tyr Ser Tyr Ser Ser
          85          90          95
Asn Ile Leu Ser Ile Arg Leu Asn Arg Gln Arg Leu Leu Val Cys Leu
          100          105          110
Glu Glu Ser Ile Tyr Ile His Asn Ile Lys Asp Met Lys Leu Leu Lys
          115          120          125
Thr Leu Leu Asp Ile Pro Ala Asn Pro Thr Gly Leu Cys Ala Leu Ser
          130          135          140
Ile Asn His Ser Asn Ser Tyr Leu Ala Tyr Pro Gly Ser Leu Thr Ser
          145          150          155          160
Gly Glu Ile Val Leu Tyr Asp Gly Asn Ser Leu Lys Thr Val Cys Thr
          165          170          175
Ile Ala Ala His Glu Gly Thr Leu Ala Ala Ile Thr Phe Asn Ala Ser
          180          185          190
Gly Ser Lys Leu Ala Ser Ala Ser Glu Lys Gly Thr Val Ile Arg Val
          195          200          205
Phe Ser Val Pro Asp Gly Gln Lys Leu Tyr Glu Phe Arg Arg Gly Met

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000220-69462960

|   |     |     |
|---|-----|-----|
| 210   | 215 | 220 |
| Lys Arg Tyr Val Thr Ile Ser Ser Leu Val Phe Ser Met Asp Ser Gln |     |     |
| 225   | 230 | 235 |
| Phe Leu Cys Ala Ser Ser Asn Thr Glu Thr Val His Ile Phe Lys Leu |     | 240 |
|   | 245 | 250 |
| Glu Gln Val Thr Asn Ser Arg Pro Glu Glu Pro Ser Thr Trp Ser Gly |     | 255 |
|   | 260 | 265 |
| Tyr Met Gly Lys Met Phe Met Ala Ala Thr Asn Tyr Leu Pro Thr Gln |     | 270 |
|   | 275 | 280 |
| Val Ser Asp Met Met His Gln Asp Arg Ala Phe Ala Thr Ala Arg Leu |     | 285 |
|   | 290 | 295 |
| Asn Phe Ser Gly Gln Arg Asn Ile Cys Thr Leu Ser Thr Ile Gln Lys |     | 300 |
| 305   | 310 | 315 |
| Leu Pro Arg Leu Leu Val Ala Ser Ser Ser Gly His Leu Tyr Met Tyr |     | 320 |
|   | 325 | 330 |
| Asn Leu Asp Pro Gln Asp Gly Gly Glu Cys Val Leu Ile Lys Thr His |     | 335 |
|   | 340 | 345 |
| Arg Leu Leu Gly Ser Gly Thr Thr Glu Glu Asn Lys Glu Asn Asp Leu |     | 350 |
|   | 355 | 360 |
| Arg Pro Ser Leu Pro Gln Ser Tyr Ala Ala Thr Val Ala Arg Pro Ser |     | 365 |
|   | 370 | 375 |
| Ala Ser Ser Ala Ser Thr Val Pro Gly Tyr Ser Glu Asp Gly Gly Ala |     | 380 |
| 385   | 390 | 395 |
| Leu Arg Gly Glu Val Ile Pro Glu His Glu Phe Ala Thr Gly Pro Val |     | 400 |
|   | 405 | 410 |
| Cys Leu Asp Asp Glu Asn Glu Phe Pro Pro Ile Ile Leu Cys Arg Gly |     | 415 |
|   | 420 | 425 |
| Asn Gln Lys Gly Lys Thr Lys Gln Ser                             |     | 430 |
|   | 435 | 440 |

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 <212> DNA  
 <213> Homo sapiens

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 <222> (452).. (964)

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 tttttototc cataaaaaca catttgtttt aattgttagga gaaattttot cagcattttg 180  
 catgtttctt ctaatctttg ttggtctgaa tatatttggt gtaattactg taattattca 240  
 acaaaaagca tatccgttca aaaatttttc cactatgtct tttttctagt ggctactgtt 300  
 ttatgttttct agttgaatat ctctgacaag ctttcgtatg gttttgttat attaatgtgt 360  
 tttcaaagtg aagactacag cacctcgccg gtactgtgtg aggccaaca gtggaattat 420

009270" 69462960

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tatggaagct gtgtggaaag aggcaaaacc tgatgaatta atggattcca aattgagatg 600
cgtatttgaa atgccaatg aaaatgataa attgaatgat atggaacctg gcaaagctgt 660
tccactgaat gcatctaagc aagatggacc tatgcaaaaa ccacacagtg tttcacttaa 720
tgataccgaa acaaggaaac taatggaaga gtgtaaaaga cttcagggag aaatgatgaa 780
gctatcagaa gaaaatcggc acctgagaga tgaaggttta aggctcagaa aggtagcaca 840
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ctttagagat gaagcatgca gagtgcgtgt tctttttttt ttttttctct tgaccagaaa 1020
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gtacagcgtc atataggctt tgcctttaat gatctcttac ggtagaaaa cacaataaaa 1140
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caggaaaatgc caagaggtat tccttgggga aatgggtgct cttacagtgt aaatttttcc 1440
tcctttacct ttgctaatat catggcagaa tttttcttat cccttgtgag gcagttgttg 1500
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gttaacagat tcttgctcg 1579

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<210> 10579  
 <211> 171  
 <212> PRT  
 <213> Homo sapiens

<400> 10579

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| Met | Leu | Gln | Pro | Phe | Asp | Tyr | Asp | Pro | Asn | Glu | Lys | Ser | Lys | His | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Phe | Met | Val | Gln | Thr | Ile | Phe | Ala | Pro | Pro | Asn | Thr | Ser | Asp | Met | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Val | Trp | Lys | Glu | Ala | Lys | Pro | Asp | Glu | Leu | Met | Asp | Ser | Lys | Leu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Cys | Val | Phe | Glu | Met | Pro | Asn | Glu | Asn | Asp | Lys | Leu | Asn | Asp | Met |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Glu | Pro | Ser | Lys | Ala | Val | Pro | Leu | Asn | Ala | Ser | Lys | Gln | Asp | Gly | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Met | Pro | Lys | Pro | His | Ser | Val | Ser | Leu | Asn | Asp | Thr | Glu | Thr | Arg | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Met | Glu | Glu | Cys | Lys | Arg | Leu | Gln | Gly | Glu | Met | Met | Lys | Leu | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Glu | Asn | Arg | His | Leu | Arg | Asp | Glu | Gly | Leu | Arg | Leu | Arg | Lys | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | His | Ser | Asp | Lys | Pro | Gly | Ser | Thr | Ser | Thr | Ala | Ser | Phe | Arg | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asn | Val | Thr | Ser | Pro | Leu | Pro | Ser | Leu | Leu | Val | Val | Ile | Ala | Ala | Ile |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |

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Phe Ile Gly Phe Phe Leu Gly Lys Phe Ile Leu  
165 170

<210> 10580  
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gctgctgaaa tttctaggct gtttaggaagc ccctcgaatt ctgtgaaaat gagggtttct 180  
taactcacac tgagagcgga aaggggcaga cccttttcat aactccctca agtgtgtgtt 240  
acctttcttt accagcatgg taagcaacag gacatatccc agoctcggac atgtctgtat 300  
gatccaaggt acccaaagtc agacagagta aactcaagcc tggcactggc tttctgccgc 360  
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ccgcaagaat gaaccgcaa gaggggaactg acagcagctg cggctgcagg ggcaacgacg 480  
agaagaagat gttgaagtgt gtggtggttg gggacggtgc cgtggggaaa acctgcctgc 540  
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          35           40           45
Glu Tyr Val Pro Thr Val Phe Asp His Tyr Ala Val Thr Val Thr Val
          50           55           60
Gly Gly Lys Gln His Leu Leu Gly Leu Tyr Asp Thr Ala Gly Gln Glu
          65           70           75           80
Asp Tyr Asn Gln Leu Arg Pro Leu Ser Tyr Pro Asn Thr Asp Val Phe
          85           90           95
Leu Ile Cys Phe Ser Val Val Asn Pro Ala Ser Tyr His Asn Val Gln
          100          105          110
Ile Asp Leu Arg Asp Asp Pro Lys Asn Leu Gly Pro Phe Ala Val Tyr
          115          120          125
Glu Arg Glu Thr Ser His Leu Arg Ala Trp Cys Glu Ala Arg Lys Ser
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008220.69462960



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| Ala | Ser | Tyr | Ile | Pro | Gly | Ser | Ile | Ile | Trp | Ala | Lys | Gln | Tyr | Gly | Tyr |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Trp | Trp | Pro | Gly | Met | Ile | Glu | Ser | Asp | Pro | Asp | Leu | Gly | Glu | Tyr |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Phe | Leu | Phe | Thr | Ser | His | Leu | Asp | Ser | Leu | Pro | Ser | Lys | Tyr | His | Val |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Arg | Arg | Asn | Asp | Cys | Ser | Gln | Lys | Leu | Gly | Val | Ala | Leu | Met | Met | Ala |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gln | Glu | Ala | Glu | Gln | Ile | Ser | Ile | Gln | Glu | Arg | Val | Asn | Leu | Phe | Gly |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Gln | Leu | Ser | Gly | Leu | Asn | Ser | Pro | Gly | Ser | Cys | Leu | Glu | Lys | Lys |
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| Glu | Lys | Glu | Glu | Glu | Leu | Glu | Lys | Glu | Glu | Gly | Glu | Lys | Thr | Ala | Leu |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
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|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Gln | Arg | Glu | Lys | Lys | Leu | Glu | Gln | Cys | Gln | Arg | Thr | Trp | Ala | Tyr | Gln |
|     | 370 |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Arg | Val | Arg | Gly | Pro | Ala | Pro | His | Leu | Arg | Lys | Lys | Ser | Pro | Asp | Thr |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
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 Ile Met Ile Gln Glu Ser Met Arg Phe Glu Lys Val Phe Glu Ser Ala



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 Gly Ala Leu Pro Glu Asp Ala Asn Pro Gly Pro Gln Thr Glu Ser Ser  
 50 55 60  
 Lys Phe Pro Phe Gly Ile Gln Gln Ala Lys Ser His Arg Asn Ile Lys  
 65 70 75 80  
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 85 90 95  
 Ile Ala His Trp Gln Asp Ser Leu Ala Lys Arg Cys Ile Cys Val Pro  
 100 105 110  
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 115 120 125  
 Ser Lys His Pro Gly Leu Val Leu Ile Leu Gly Lys Leu Ile Leu Leu  
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 His His Glu His Pro Glu Arg Lys Arg Ala Pro Gln Thr Tyr Glu Lys  
 145 150 155 160  
 Glu Glu Asp Glu Asp Lys Gly Val Ala Cys Ser Lys Asp Glu Trp Trp  
 165 170 175  
 Trp Asp Cys Leu Glu Val Leu Arg Asp Asn Thr Leu Val Thr Leu Ala  
 180 185 190  
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 Leu Pro Ile Leu Asp Gly Leu Leu His Trp Met Val Cys Pro Ser Ala  
 210 215 220  
 Glu Ala Gln Asp Pro Phe Pro Thr Val Gly Pro Asn Ser Val Leu Ser  
 225 230 235 240  
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<212> PRT

<213> Homo sapiens

<400> 10589

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          20           25           30
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          35           40           45
Ser Tyr Leu Ser Val Val Val Ala Leu Gly Asn Leu Gly Leu Leu Val
          50           55           60
Val Thr Leu Trp Arg Arg Leu Ala Pro Gly Lys Gly Glu Gln Val Pro
          65           70           75           80
Ile Gln Val Val Gln Val Leu Ser Val Val Gly Thr Ala Leu Leu Ala
          85           90           95
Pro Leu Trp His His Val Ala Pro Val Ala Gly Gln Leu His Ser Val
          100          105          110
Ala Phe Leu Thr Leu Ala Leu Val Leu Ala Met Ala Cys Cys Thr Ser
          115          120          125
Asn Val Thr Phe Leu Pro Phe Leu Ser His Leu Pro Pro Pro Phe Leu
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Arg Ser Phe Phe Leu Gly Gln Gly Leu Ser Ala Leu Leu Pro Cys Val
          145          150          155          160
Leu Ala Leu Val Gln Gly Val Gly Arg Leu Glu Cys Pro Pro Ala Pro
          165          170          175
Thr Asn Gly Thr Ser Gly Pro Pro Leu Asp Phe Pro Glu Arg Phe Pro
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Ala Ser Thr Phe Phe Trp Ala Leu Thr Ala Leu Leu Val Thr Ser Ala

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| 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |     |
| Thr | Thr | Gly | Gly | Ser | Gly | Pro | Glu | Leu | Gln | Leu | Gly | Ser | Pro | Gly | Ala |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     |     |
| Glu | Glu | Glu | Glu | Lys | Glu | Glu | Glu | Glu | Ala | Leu | Pro | Leu | Gln | Glu | Pro |
| 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |     |     |     |
| Pro | Ser | Gln | Ala | Ala | Gly | Thr | Ile | Pro | Gly | Pro | Asp | Pro | Glu | Ala | His |
| 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |     |     |
| Gln | Leu | Phe | Ser | Ala | His | Gly | Ala | Phe | Leu | Leu | Gly | Leu | Met | Ala | Phe |
| 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |     |
| Thr | Ser | Ala | Val | Thr | Asn | Gly | Val | Leu | Pro | Ser | Val | Gln | Ser | Phe | Ser |
| 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |
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| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     |     |
| Ser | Ala | Ala | Asn | Pro | Leu | Ala | Cys | Phe | Leu | Ala | Met | Gly | Val | Leu | Cys |
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| Arg | Ser | Leu | Ala | Gly | Leu | Val | Gly | Leu | Ser | Leu | Leu | Gly | Met | Leu | Phe |
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| Val | Gly | Thr | Thr | Ala | Gly | Val | Val | Leu | Val | Val | Leu | Ser | Trp | Val | Leu |
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| Cys | Leu | Cys | Val | Phe | Ser | Tyr | Val | Lys | Val | Ala | Ala | Ser | Ser | Leu | Leu |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     |     |
| His | Gly | Gly | Gly | Arg | Pro | Ala | Leu | Leu | Ala | Ala | Gly | Val | Ala | Ile | Gln |
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| Val | Gly | Ser | Leu | Leu | Gly | Ala | Gly | Ala | Met | Phe | Pro | Pro | Thr | Ser | Ile |
| 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     |     |
| Tyr | His | Val | Phe | Gln | Ser | Arg | Lys | Asp | Cys | Val | Asp | Pro | Cys | Gly | Pro |
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<400> 10591

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| Met | Ser | Arg | Asn | Ser | Leu | Ser | Ile | Pro | Val | Glu | Ser | Leu | Gly | His | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Tyr | Leu | Met | Leu | Met | Gly | Ser | Pro | Phe | Leu | Gly | Val | Gly | Leu | Thr | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Asp | Ser | Ala | Ser | Val | Tyr | Pro | Ser | Cys | Gly | Leu | Ile | Cys | Met | His |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Glu | Ser | Thr | Val | Cys | Ile | Pro | Leu | Cys | Phe | Pro | Gln | Ala | Ser | Leu | Ser |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Cys | Pro | Phe | His | Phe | Pro | Cys | Pro | Ile | Gly | Leu | Leu | Ser | Cys | Thr | Leu |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Pro | Asn | Gly | Phe | Gly | Gly | Gln | Ser | Gly | Pro | Glu | Gly | Glu | Arg | Ser | Leu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Ala | Pro | Pro | Asp | Ala | Ser | Ile | Leu | Ile | Ser | Asn | Val | Cys | Ser | Ile | Gly |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Asp | His | Val | Ala | Gln | Glu | Leu | Phe | Gln | Gly | Ser | Asp | Leu | Gly | Met | Ala |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Glu | Glu | Ala | Glu | Arg | Pro | Gly | Glu | Lys | Ala | Gly | Gln | His | Ser | Pro | Leu |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

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| Met | Gly | Phe | Val | Arg | Cys | Arg | Ile | Lys | Ser | Val | Val | His | Arg | Val | Met |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Pro | Phe | Ala | Val | Arg | Glu | Cys | Lys | Gly | Arg | Ala | Gly | Asn | Ser | Arg | Met |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |     |     |
| Gly | Arg | Cys | Val | Asn | Val | Asp | Leu | Gln | Val | Gly | His | Lys | Gln | Cys | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Ile | Pro | Leu | Gly | Lys | Arg | Ser | Leu | Leu | Glu | Ser | Gly | Gln | Ala | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Gly | Ser | Leu | Ser | Ser | Gly | Ile | Phe | Leu | Cys | Ser | Ser | His | Trp | Leu | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Met | Glu | Asn | Glu | Arg | Lys | Arg | Ser | Leu | Phe | Gln | Ala | Arg | Asp | Leu | Thr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asn | Arg | Ile | Thr | Leu | Arg | Pro | Cys | Ser | Arg | Gly | His | Lys | Leu | Pro |     |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Ser | Leu | Phe | Pro | Cys | Gly | Leu |     |     |     |     |     |     |     |     |     |
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| agcaaacttg | ttaaactgg   | ctaaactgag | tatcaaagga  | ctcattgaat | ctgctctgag | 180 |
| ctttggccgc | actttggatt  | ctgactatcc | ccccttgcag  | caattctttg | ttgttatgga | 240 |
| acattgcctg | aaacacggtc  | ttaaagtaag | aaaatcattt  | ttgagttaca | acaaaaccat | 300 |
| ctggggccct | ttggaactgg  | tggagaagct | gtaccccgaa  | gcagaggaaa | taggagctag | 360 |
| tgtccgggat | ctacctgggtc | tgaagacccc | tctgggtcga  | gcaagagcgt | ggcttcgatt | 420 |
| agccctcatg | cagaaaaaaa  | tggccgatta | cttacgttgc  | ttaattattc | agagggatct | 480 |
| cttgagttag | ttttatgagt  | atcacgcact | aatgatggaa  | gaagaaggag | cagtaattgt | 540 |
| tgggctgctg | gttggcctga  | atgtgatcga | tgctaattctg | tgtgtgaagg | gagaggattt | 600 |
| agactcacga | gttggagtga  | ttgatttttc | tatgtattta  | aagaatgaag | aagatattgg | 660 |
| aaataaagaa | aggtatgatt  | ttcataagtt | atttcacata  | ttgggttttt | tatatagctc | 720 |
| tttacaaatc | attataagat  | ccatctattt | acagtgtggt  | tttattttgt | tgttttcccc | 780 |

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| Met | Ala | Thr | Lys | Asp | Pro | Thr | Ala | Val | Glu | Arg | Ala | Asn | Leu | Leu | Asn |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Met | Ala | Lys | Leu | Ser | Ile | Lys | Gly | Leu | Ile | Glu | Ser | Ala | Leu | Ser | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Arg | Thr | Leu | Asp | Ser | Asp | Tyr | Pro | Pro | Leu | Gln | Gln | Phe | Phe | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Met | Glu | His | Cys | Leu | Lys | His | Gly | Leu | Lys | Val | Arg | Lys | Ser | Phe |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ser | Tyr | Asn | Lys | Thr | Ile | Trp | Gly | Pro | Leu | Glu | Leu | Val | Glu | Lys |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Leu | Tyr | Pro | Glu | Ala | Glu | Glu | Ile | Gly | Ala | Ser | Val | Arg | Asp | Leu | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Leu | Lys | Thr | Pro | Leu | Gly | Arg | Ala | Arg | Ala | Trp | Leu | Arg | Leu | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Met | Gln | Lys | Lys | Met | Ala | Asp | Tyr | Leu | Arg | Cys | Leu | Ile | Ile | Gln |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Asp | Leu | Leu | Ser | Glu | Phe | Tyr | Glu | Tyr | His | Ala | Leu | Met | Met | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Glu | Gly | Ala | Val | Ile | Val | Gly | Leu | Leu | Val | Gly | Leu | Asn | Val | Ile |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Asp | Ala | Asn | Leu | Cys | Val | Lys | Gly | Glu | Asp | Leu | Asp | Ser | Arg | Val | Gly |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Ile | Asp | Phe | Ser | Met | Tyr | Leu | Lys | Asn | Glu | Glu | Asp | Ile | Gly | Asn |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Lys | Glu | Arg | Tyr | Asp | Phe | His | Lys | Leu | Phe | His | Ile | Leu | Gly | Phe | Leu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |

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| Lys | Lys | Arg | Leu | Gly | Phe | Phe | Gln | Thr | Tyr | Asp | Thr | Glu | Tyr | Leu | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Gly | Phe | Ile | Ile | Cys | Pro | Gly | Ser | Lys | Glu | Ser | Ser | Pro | Arg | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Cys | Val | Ile | Cys | Gly | Glu | Ile | Leu | Ser | Ser | Glu | Asn | Met | Lys | Pro |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Asn | Leu | Ser | His | His | Leu | Lys | Thr | Lys | His | Ser | Glu | Leu | Glu | Asn |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Lys | Pro | Val | Asp | Phe | Phe | Glu | Gln | Lys | Ser | Leu | Glu | Met | Glu | Cys | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asn | Ser | Ser | Leu | Lys | Lys | Cys | Leu | Leu | Val | Glu | Lys | Ser | Leu | Val | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Ser | Tyr | Leu | Ile | Ala | Phe | Gln | Thr | Ala | Ala | Ser | Lys | Lys | Pro | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Ile | Ala | Glu | Glu | Leu | Ile | Lys | Pro | Tyr | Leu | Val | Glu | Met | Cys | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Val | Leu | Gly | Ser | Ser | Ala | Gly | Asp | Lys | Met | Lys | Thr | Ile | Pro | Leu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ser | Asn | Val | Thr | Ile | Gln | His | Arg | Ile | Asp | Glu | Leu | Ser | Ala | Asp | Ile |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Glu | Asp | Gln | Leu | Ile | Gln | Lys | Val | Arg | Glu | Ser | Lys | Trp | Phe | Ala | Leu |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Gln | Ile | Asp | Glu | Ser | Ser | Glu | Ile | Ser | Asn | Ile | Thr | Leu | Leu | Leu | Cys |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Tyr | Ile | Arg | Phe | Ile | Asp | Tyr | Asp | Cys | Arg | Asp | Val | Lys | Glu | Glu | Leu |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Leu | Phe | Cys | Ile | Glu | Met | Pro | Thr | Gln | Ile | Thr | Gly | Phe | Glu | Ile | Phe |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Leu | Ile | Asn | Lys | Tyr | Ile | Asp | Ser | Lys | Ser | Leu | Asn | Trp | Lys | His |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Cys | Val | Gly | Leu | Cys | Thr | Asp | Gly | Ala | Ala | Ser | Met | Thr | Gly | Arg | Tyr |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Ser | Gly | Leu | Lys | Ala | Lys | Ile | Gln | Glu | Val | Ala | Met | Asn | Thr | Ala | Ala |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |
| Phe | Thr | His | Cys | Phe | Ile | His | Arg | Glu | Arg | Leu | Val | Ala | Glu | Lys | Leu |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Ser | Pro | Cys | Leu | His | Lys | Ile | Leu | Leu | Gln | Ser | Ala | Gln | Ile | Leu | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Phe | Ile | Lys | Ser | Asn | Ala | Leu | Asn | Ser | Arg | Met | Leu | Thr | Ile | Leu | Cys |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Glu | Glu | Met | Gly | Ser | Glu | His | Val | Ser | Leu | Pro | Leu | His | Ala | Glu | Val |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Arg | Trp | Ile | Ser | Arg | Gly | Arg | Met | Leu | Lys | Arg | Leu | Phe | Glu | Leu | Arg |
|     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| His | Glu | Ile | Glu | Ile | Phe | Leu | Ser | Gln | Lys | His | Ser | Asp | Leu | Ala | Lys |
|     | 370 |     |     |     |     | 375 |     |     |     | 380 |     |     |     |     |     |
| Tyr | Phe | His | Asp | Glu | Glu | Trp | Val | Gly | Lys | Leu | Ala | Tyr | Leu | Ser | Asp |
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| Arg | Gln | Gln | Arg | Met | Ile | Lys | Asn | Arg | Glu | Ser | Ala | Cys | Gln | Ser | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Lys | Lys | Lys | Glu | Tyr | Leu | Gln | Gly | Leu | Glu | Ala | Arg | Leu | Gln | Ala |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Val | Leu | Ala | Asp | Asn | Gln | Gln | Leu | Arg | Arg | Glu | Asn | Ala | Ala | Leu | Arg |
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|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |
| Ser | Gly | Asn | Arg | Lys | Val | Val | Cys | Ile | Met | Val | Phe | Leu | Leu | Phe | Ile |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |
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|     |     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Ser | Pro | Arg | Met | Asn | Lys | Gly | Glu | Pro | Gln | Pro | Arg | His | Leu |     |
|     |     |     |     | 115 |     |     | 120 |     |     |     |     | 125 |     |     |     |

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| cttataacctc | ctaattagat | gaggattaaa | tatatataaa  | tacactgatc | atagcagctg | 1500 |
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| acgtgtgaag  | cttgaagaga tggggtttcaa ggacactgac cctgacagca aacccttcag 720  |      |
| tcttcaggag  | acatatgaag caaaaaggaa tgaattcctg ggagaactgc agaagaaaga 780   |      |
| agaagaaatg  | agacaaatgt ttgttatgag agtgaaggag aaagaagctg aacttaagga 840   |      |
| ggcagaggaa  | gagcttcacg agaagtttga ccttctaaag cggacacacc aagaagaaaa 900   |      |
| gaagaaaagt  | gaagacaaga agaaggagct tgaggaggag gtgaacaact tccagaagaa 960   |      |
| gaaagcagcg  | gctcagttac tacagtccca ggcccagcaa tctggggccc agcaaaccac 1020  |      |
| gaaagacaag  | gataagaaaa atgcaagctt cacataaagc ctggcaagcc aaggatgttc 1080  |      |
| ccgcattcac  | ctgcttttgc agtaatatcg tatctctgcc atgtgtgttc tttagtttta 1140  |      |
| ttttatttta  | ttttattttt ttacccttcc tcaaacacca gtaactatta ttaactcgtt 1200  |      |
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| gcagcacgaa  | gcaggcctgt tacttgtatg tgcctttgga cagaggaaaag tggggtaaaa 1380 |      |
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<211> 261  
<212> PRT

<213> Homo sapiens

<400> 10608

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Met Ser Glu Leu Val Ser Asn Gly Val Gln Ile Tyr Gln Phe Pro Thr  
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Asp Glu Glu Thr Val Ala Glu Ile Asn Ala Thr Met Ser Val His Leu  
50 55 60  
Pro Phe Ala Val Val Gly Ser Thr Glu Glu Val Lys Ile Gly Asn Lys  
65 70 75 80  
Met Ala Lys Ala Arg Gln Tyr Pro Trp Gly Val Val Gln Val Glu Asn  
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Glu Asn His Cys Asp Phe Val Lys Leu Arg Glu Met Leu Ile Arg Val  
100 105 110  
Asn Met Glu Asp Leu Arg Glu Gln Thr His Thr Arg His Tyr Glu Leu  
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Tyr Arg Arg Cys Lys Leu Glu Met Gly Phe Lys Asp Thr Asp Pro  
130 135 140  
Asp Ser Lys Pro Phe Ser Leu Gln Glu Thr Tyr Glu Ala Lys Arg Asn  
145 150 155 160  
Glu Phe Leu Gly Glu Leu Gln Lys Lys Glu Glu Glu Met Arg Gln Met  
165 170 175  
Phe Val Met Arg Val Lys Glu Lys Glu Ala Glu Leu Lys Glu Ala Glu  
180 185 190  
Glu Glu Leu His Glu Lys Phe Asp Leu Leu Lys Arg Thr His Gln Glu  
195 200 205  
Glu Lys Lys Lys Val Glu Asp Lys Lys Lys Glu Leu Glu Glu Glu Val  
210 215 220  
Asn Asn Phe Gln Lys Lys Lys Ala Ala Ala Gln Leu Leu Gln Ser Gln  
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<210> 10609

<211> 1464

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (185).. (1462)

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<400> 10609

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<210> 10610

<211> 426

<212> PRT

<213> Homo sapiens

<400> 10610

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Gly Trp Arg Ser Trp Arg Ala Gly Val Ile Arg Ala Val Ser His Arg
          35          40          45
Asp Ser Arg Asn Pro Asp Leu Ala Val Tyr Val Glu Phe Asp Asp Leu
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Glu Trp Asp Lys Arg Glu Trp Val Lys Val Tyr Glu Asp Phe Ser Thr
          65          70          75          80
Phe Leu Val Glu Tyr His Leu Ile Trp Ala Lys Arg Asn Asp Pro Ser
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Gln Thr Gln Gly Ser Lys Ser Lys Gln Ile Gln Trp Pro Ala Leu Thr
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09629469.072800



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 Phe Gln Pro Tyr Gln Asp Asp Ile Asp Ser Leu Asn Pro Val Leu Arg  
 145 150 155 160  
 Asp Asn Pro Gln Leu His Glu Glu Val Lys Val Trp Val Lys Glu Gln  
 165 170 175  
 Lys Val Gln Glu Ile Phe Met Gln Gly Pro Tyr Ser Leu Asn Gly Tyr  
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 Arg Val Arg Val Tyr Arg Gln Asp Ser Ala Thr Gln Trp Phe Thr Gly  
 195 200 205  
 Ile Ile Thr His His Asp Leu Phe Thr Arg Thr Met Ile Val Met Asn  
 210 215 220  
 Asp Gln Val Leu Glu Pro Gln Asn Val Asp Pro Ser Met Val Gln Met  
 225 230 235 240  
 Thr Phe Leu Asp Asp Val Val His Ser Leu Leu Lys Gly Glu Asn Ile  
 245 250 255  
 Gly Ile Thr Ser Arg Arg Arg Ser Arg Ala Asn Gln Asn Val Asn Ala  
 260 265 270  
 Val His Ser His Tyr Thr Arg Ala Gln Ala Asn Ser Pro Arg Pro Ala  
 275 280 285  
 Met Asn Ser Gln Ala Ala Val Pro Lys Gln Asn Thr His Gln Gln Gln  
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 Gln Gln Arg Ser Ile Arg Pro Asn Lys Arg Lys Gly Ser Asp Ser Ser  
 305 310 315 320  
 Ile Pro Asp Glu Glu Lys Met Lys Glu Glu Lys Tyr Asp Tyr Ile Ser  
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 Arg Gly Glu Asn Pro Lys Gly Lys Asn Lys His Leu Met Asn Lys Arg  
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 Arg Lys Pro Glu Glu Asp Glu Lys Lys Leu Asn Met Lys Arg Leu Arg  
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 Thr Asp Asn Val Ser Asp Phe Ser Glu Ser Ser Asp Ser Glu Asn Ser  
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 Asn Lys Arg Ile Ile Asp Asn Ser Ser Glu Gln Lys Pro Glu Asn Glu  
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<210> 10611

<211> 1547

<212> DNA

<213> Homo sapiens

<220>

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<221> CDS

<222> (303).. (1472)

<400> 10611

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<210> 10612

<211> 390

<212> PRT

<213> Homo sapiens

<400> 10612

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          20             25             30
Lys Tyr Gln Val Ser Glu Glu Val Pro Ser Gly Thr Val Ile Gly Lys
          35             40             45
Leu Ser Gln Glu Leu Gly Arg Glu Glu Arg Arg Arg Gln Ala Gly Ala
          50             55             60
Ala Phe Gln Val Leu Gln Leu Pro Gln Ala Leu Pro Ile Gln Val Asp
          65             70             75             80

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-4100/13211-

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Glu | Glu | Gly | Leu | Leu | Ser | Thr | Gly | Arg | Arg | Leu | Asp | Arg | Glu | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Cys | Arg | Gln | Trp | Asp | Pro | Cys | Leu | Val | Ser | Phe | Asp | Val | Leu | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Gly | Asp | Leu | Ala | Leu | Ile | His | Val | Glu | Ile | Gln | Val | Leu | Asp | Ile |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asn | Asp | His | Gln | Pro | Arg | Phe | Pro | Lys | Gly | Glu | Gln | Glu | Leu | Glu | Ile |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Glu | Ser | Ala | Ser | Leu | Arg | Thr | Arg | Ile | Pro | Leu | Asp | Arg | Ala | Leu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Asp | Pro | Asp | Thr | Gly | Pro | Asn | Thr | Leu | His | Thr | Tyr | Thr | Leu | Ser | Pro |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ser | Glu | His | Phe | Ala | Leu | Asp | Val | Ile | Val | Gly | Pro | Asp | Glu | Thr | Lys |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| His | Ala | Glu | Leu | Ile | Val | Val | Lys | Glu | Leu | Asp | Arg | Glu | Ile | His | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Phe | Asp | Leu | Val | Leu | Thr | Ala | Tyr | Asp | Asn | Gly | Asn | Pro | Pro | Lys |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | Gly | Thr | Ser | Leu | Val | Lys | Val | Asn | Val | Leu | Asp | Ser | Asn | Asp | Asn |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Pro | Ala | Phe | Ala | Glu | Ser | Ser | Leu | Ala | Leu | Glu | Ile | Gln | Glu | Asp |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Ala | Ala | Pro | Gly | Thr | Leu | Leu | Ile | Lys | Leu | Thr | Ala | Thr | Asp | Pro | Asp |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gln | Gly | Pro | Asn | Gly | Glu | Val | Glu | Phe | Phe | Leu | Ser | Lys | His | Met | Pro |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Pro | Glu | Val | Leu | Asp | Thr | Phe | Ser | Ile | Asp | Ala | Lys | Thr | Gly | Gln | Val |
|     | 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |
| Ile | Leu | Arg | Arg | Pro | Leu | Asp | Tyr | Glu | Lys | Asn | Pro | Ala | Tyr | Glu | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Asp | Val | Gln | Ala | Arg | Asp | Leu | Gly | Pro | Asn | Pro | Ile | Pro | Ala | His | Cys |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Lys | Val | Leu | Ile | Lys | Val | Leu | Asp | Val | Asn | Asp | Asn | Ile | Pro | Ser | Ile |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| His | Val | Thr | Trp | Ala | Ser | Gln | Pro | Ser | Leu | Val | Ser | Glu | Ala | Leu | Pro |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Lys | Asp | Ser | Phe | Ile | Ala | Leu | Val | Met | Ala | Asp | Asp | Leu | Asp | Ser | Gly |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Asp | Gly | Leu | Leu | Gly |     |     |     |     |     |     |     |     |     |     |
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<211> 2570

<212> DNA

<213> Homo sapiens

<400> 10613

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| ccgaaaagat | tttcagtatc  | acagattatt  | cataagaaat  | tgagaaaagg  | aacaatcaga  | 120  |
| agttgcaaaa | gatggatatg  | ccgaatataa  | tggaaatagg  | aaaaattagt  | cgaaaataaa  | 180  |
| ggttgattta | gaaatgaaga  | aaatgaatat  | atttcttaat  | acaaaaataag | tgggaaatga  | 240  |
| gaagttatac | caataaaaag  | catttacaaa  | tttaggggat  | attgtaaccc  | agtataat    | 300  |
| tctgacaggt | tggactttga  | ccctaattgga | cttactgggtg | aactttttca  | aatgttttaa  | 360  |
| taatgtctat | ccatgtatca  | tgaaggacag  | tatgcttcaa  | attgtctttt  | gaggcagaca  | 420  |
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| aaataaaata | ttgacaaaca  | atacagcaac  | aaataattta  | ctatcactca  | ggattataag  | 540  |
| gctggtgtta | agcagaacag  | ccattaaatc  | agcatcaaaa  | gaacaaatag  | taaaatccaa  | 600  |
| agtattaatt | acagataact  | tttcaaaaat  | tcattcattca | cccttgattt  | aattatttct  | 660  |
| ctggcaatta | tttaatatag  | ttctcggagt  | ctgttaagta  | cttaaaccac  | gaactacat   | 720  |
| tattcctact | gggaaaacat  | aaacatttct  | caagtggaaa  | gtaaacagtg  | ttggcactat  | 780  |
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| atagtataaa | aattgtactaa | caaagactaa  | ttcaagaagt  | tgcaggatac  | acaattttta  | 960  |
| aaaatctcat | ttctacatct  | tagcagtgc   | aaactgcaat  | ttaaaaagtg  | tgtttggtta  | 1020 |
| ttaatatata | tgagactttt  | aaagaaagtt  | atataactac  | atagagataa  | attaagaaag  | 1080 |
| atgcctaaat | agaagcaagt  | ttaaagagct  | atatttttaa  | acatgaacaa  | actcccatgg  | 1140 |
| gagccatgcc | agtgtagtgg  | aaaagtagta  | catggggaga  | tggggagttt  | ttttgaaaac  | 1200 |
| cagaattaca | gttctcattt  | cactacttac  | cagttgtata  | ctcttgggaa  | agtcactcct  | 1260 |
| agtatctatt | tcaccatcta  | cagaagagaa  | atacttcaca  | gaattattgt  | ggggattaag  | 1320 |
| ttagataatg | tgttttaaaa  | tataaagcta  | catccaaaga  | aatgccaaata | tgtagacatta | 1380 |
| gtatgaaatt | tactacagtt  | ccatttaaca  | ttccaactgg  | ttgotgtgtg  | gaatatggca  | 1440 |
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| aaaaaatggg | agccttgctc  | tccaaatcct  | taaaacatgc  | tattaagcaa  | cttttctgaa  | 1560 |
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| ggggtttgta | ctcttaggca  | aattttataa  | gcgatcgtgt  | ataaatgata  | taaaaaatca  | 1980 |
| atttgaatgg | tattcaaatt  | tcctaataatt | aaaaatgcaa  | ctttgactta  | gttcattgcta | 2040 |
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<211> 1855

<212> DNA

<213> Homo sapiens

<400> 10614

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| Gly | Ala | Trp | Lys | Ile | Met | Gly | Phe | Asp | Phe | Cys | Val | Ser | Ser | Thr | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Ser | Glu | Gln | Glu | Pro | Lys | Phe | Pro | Cys | Lys | Glu | Trp | Asp | Pro | Asn |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Pro | Ser | Leu | Cys | Leu | Pro | Asn | Pro | Glu | Tyr | Leu | Ala | Pro | Glu | Tyr |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Ile | Leu | Ser | Val | Ser | Cys | Glu | Thr | Ala | Ser | Asp | Met | Tyr | Ser | Leu | Gly |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Thr | Val | Met | Tyr | Ala | Val | Phe | Asn | Lys | Gly | Lys | Pro | Ile | Phe | Glu | Val |
|     |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  |     |
| Asn | Lys | Gln | Asp | Ile | Tyr | Lys | Ser | Phe | Ser | Arg | Gln | Leu | Asp | Gln | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Ser | Arg | Leu | Gly | Ser | Ser | Ser | Leu | Thr | Asn | Ile | Pro | Glu | Glu | Val | Arg |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | His | Val | Lys | Leu | Leu | Leu | Asn | Val | Thr | Pro | Thr | Val | Arg | Pro | Asp |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Ala | Asp | Gln | Met | Thr | Lys | Ile | Pro | Phe | Phe | Asp | Asp | Val | Gly | Ala | Val |
|     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Thr | Leu | Gln | Tyr | Phe | Asp | Thr | Leu | Phe | Gln | Arg | Asp | Asn | Leu | Gln | Lys |
|     |     |     |     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Gln | Phe | Phe | Lys | Gly | Leu | Pro | Lys | Val | Leu | Pro | Lys | Leu | Pro | Lys |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     | 190 |     |     |     |
| Arg | Val | Ile | Val | Gln | Arg | Ile | Leu | Pro | Cys | Leu | Thr | Ser | Glu | Phe | Val |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Pro | Asp | Met | Val | Pro | Phe | Val | Leu | Pro | Asn | Val | Leu | Leu | Ile | Ala |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Glu | Cys | Thr | Lys | Glu | Glu | Tyr | Val | Lys | Leu | Ile | Leu | Pro | Glu | Leu |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Pro | Val | Phe | Lys | Gln | Gln | Glu | Pro | Ile | Gln | Ile | Leu | Leu | Ile | Phe |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Gln | Lys | Met | Asp | Leu | Leu | Leu | Thr | Lys | Thr | Pro | Pro | Asp | Glu | Ile |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Lys | Asn | Ser | Val | Leu | Pro | Met | Val | Tyr | Arg | Ala | Leu | Glu | Ala | Pro | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ile | Gln | Ile | Gln | Glu | Leu | Cys | Leu | Asn | Ile | Ile | Pro | Thr | Phe | Ala | Asn |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Leu | Ile | Asp | Tyr | Pro | Ser | Met | Lys | Asn | Ala | Leu | Ile | Pro | Arg | Ile | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Val | Val | Glu | Lys | Ser | Asn | Ser | Tyr | Pro | His | Gln | Leu | Tyr | Thr | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Ser | His | His | Ser | His | Ser | Tyr | Ile | Gly | Leu | Pro | Tyr | Ala | Asp | His |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Asn | Tyr | Gly | Ala | Arg | Pro | Pro | Pro | Thr | Pro | Pro | Ala | Ser | Pro | Pro | Pro |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ser | Val | Leu | Ile | Ser | Lys | Asn | Glu | Val | Gly | Ile | Phe | Thr | Thr | Pro | Asn |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Asp | Glu | Thr | Ser | Ser | Ala | Thr | Thr | Ile | Ser | Thr | Ser | Glu | Asp | Gly |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Tyr | Gly | Thr | Asp | Val | Thr | Arg | Cys | Ile | Cys | Gly | Phe | Thr | His | Asp |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Asp | Gly | Tyr | Met | Ile | Cys | Cys | Asp | Lys | Cys | Ser | Val | Trp | Gln | His | Ile |
| 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |     |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |
| Gln | Arg | Arg | Lys | Arg | Glu | Asn | Met | Ser | Asp | Gly | Asp | Thr | Ser | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |
| Glu | Ser | Gly | Asp | Glu | Val | Pro | Val | Glu | Leu | Tyr | Thr | Ala | Phe | Gln |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |
| Thr | Pro | Thr | Ser | Ile | Thr | Leu | Thr | Ala | Ser | Arg | Val | Ser | Lys | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     | Asn |
| Asp | Lys | Arg | Arg | Lys | Lys | Ser | Gly | Glu | Lys | Glu | Gln | His | Ile | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |
| Cys | Lys | Lys | Ala | Phe | Arg | Glu | Gly | Ser | Arg | Lys | Ser | Ser | Arg | Val |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 | Lys |
| Gly | Ser | Ala | Pro | Glu | Ile | Asp | Pro | Ser | Ser | Asp | Gly | Ser | Asn | Phe |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 | Gly |
| Trp | Glu | Thr | Lys | Ile | Lys | Ala | Trp | Met | Asp | Arg | Tyr | Glu | Glu | Ala |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     | Asn |
| Asn | Asn | Gln | Tyr | Ser | Glu | Gly | Val | Gln | Arg | Glu | Ala | Gln | Arg | Ile |
|     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     | Ala |
| Leu | Arg | Leu | Gly | Asn | Gly | Asn | Asp | Lys | Lys | Glu | Met | Asn | Lys | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | Asp |
| Leu | Asn | Thr | Asn | Asn | Leu | Leu | Phe | Lys | Pro | Pro | Val | Glu | Ser | His |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | Ile |
| Gln | Lys | Asn | Lys | Lys | Ile | Leu | Lys | Ser | Ala | Lys | Asp | Leu | Pro | Pro |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     | Asp |
| Ala | Leu | Ile | Ile | Glu | Tyr | Arg | Gly | Lys | Phe | Met | Leu | Arg | Glu | Gln |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     | Phe |
| Glu | Ala | Asn | Gly | Tyr | Phe | Phe | Lys | Arg | Pro | Tyr | Pro | Phe | Val | Leu |
|     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     | Phe |
| Tyr | Ser | Lys | Phe | His | Gly | Leu | Glu | Met | Cys | Val | Asp | Ala | Arg | Thr |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |
| Gly | Asn | Glu | Ala | Arg | Phe | Ile | Arg | Arg | Ser | Cys | Thr | Pro | Asn | Ala |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     | 415 | Glu |
| Val | Arg | His | Glu | Ile | Gln | Asp | Gly | Thr | Ile | His | Leu | Tyr | Ile | Tyr |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     | Ser |
| Ile | His | Ser | Ile | Pro | Lys | Gly | Thr | Glu | Ile | Thr | Ile | Ala | Phe | Asp |
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| Asp | Tyr | Gly | Asn | Cys | Lys | Tyr | Lys | Val | Asp | Cys | Ala | Cys | Leu | Lys |
|     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     | Glu |
| Asn | Pro | Glu | Cys | Pro | Val | Leu | Lys | Arg | Ser | Ser | Glu | Ser | Met | Glu |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | Asn |
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Arg Leu Asp Ala Gln Gly Ala Arg Trp Met Glu Lys His Gly Phe Glu  
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210 215 220  
Gln Ser Lys Thr Phe Tyr Lys Pro Asp Trp Phe Asp Ile Val Glu Ser  
225 230 235 240

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| Glu | Val | Lys | Cys | Cys | Lys | Glu | Ala | Val | Cys | Val | Ile | Asp | Met | Ser | Ser |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Phe | Thr | Lys | Phe | Glu | Ile | Thr | Ser | Thr | Gly | Asp | Gln | Ala | Leu | Glu | Val |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |
| Leu | Gln | Tyr | Leu | Phe | Ser | Ser | Asp | Leu | Asp | Val | Pro | Val | Gly | His | Ile |  |  |
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| Asp | Gln | Gln | Val | His | Cys | Trp | Ala | Trp | Leu | Lys | Lys | His | Met | Pro | Lys |  |  |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Asp | Ser | Asn | Leu | Leu | Glu | Asp | Val | Thr | Trp | Lys | Tyr | Thr | Ala | Leu |     |  |  |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |  |  |
| Asn | Leu | Ile | Gly | Pro | Arg | Ala | Val | Asp | Val | Leu | Ser | Glu | Leu | Ser | Tyr |  |  |
|     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |  |  |
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| Ser | Val | Gly | Tyr | Ala | Lys | Gly | Ile | Arg | Val | Met | Ser | Met | Thr | His | Thr |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |
| Gly | Glu | Pro | Gly | Phe | Met | Leu | Tyr | Ile | Pro | Ile | Glu | Gly | Met | Ile | Ser |  |  |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |  |  |
| Leu | Val | Ala | Met | Pro | Ser | Cys | Ser | Arg | Ser | Arg | Met | Glu | Cys | Ile | Asn |  |  |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |  |  |
| Ala | Ser | Pro | Cys | Ser | Ser | Trp | Thr | Thr | Met | Ile | Gln | Thr |     |     |     |  |  |
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| Glu | Arg | His | Val | Ile | Phe | Ala | Arg | Thr | Asp | Ala | Asp | Ala | Pro | Pro | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Glu | Asp | Trp | Glu | Glu | His | Val | Asn | Arg | Thr | Gly | Trp | Thr | Met | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Asn | Lys | Leu | Phe | Asn | Lys | Ile | Leu | Lys | Ala | Leu | Gln | Ser | Asp | Arg |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ala | Arg | Leu | Ala | Asn | Glu | Gly | Ala | Cys | Asn | Glu | Pro | Val | Leu | Arg |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Arg | Val | Ala | Val | Asp | Lys | Cys | Ala | Arg | Arg | Val | Arg | Gln | Ala | Leu | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Val | Ser | Trp | Asp | Thr | Lys | Leu | Ile | Gln | Trp | Leu | His | Thr | Thr | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Val | Glu | Thr | Leu | Ser | Leu | Pro | Met | Leu | Ala | Ala | Tyr | Leu | Asp | Ala | Leu |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Gln | Thr | Leu | Lys | Gly | Lys | Ile | Pro | Thr | Leu | Ile | Asp | Arg | Met | Leu | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Ser | Asn | Thr | Lys | Thr | Gly | Ala | Ala | Gly | Ala | Glu | Ala | Leu | Ser | Leu |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Leu | Leu | Lys | Arg | Pro | Trp | Asp | Pro | Ala | Val | Gly | Val | Leu | Ser | His | Asn |
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| Lys | Pro | Ser | Lys | Leu | Pro | Gly | Ser | Pro | Leu | Ile | Leu | Ile | Ala | Ser | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Pro | Ser | Ser | Ser | Val | Phe | Pro | Thr | Ser | Arg | Arg | His | Arg | Phe | Trp |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Gln | Ser | Gln | Leu | Ser | Cys | Leu | Gly | Lys | Val | Ile | Pro | Val | Ala | Thr | His |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Leu | Asn | Asn | Gly | Ser | Gly | Val | Gly | Val | Leu | Gln | Cys | Leu | Glu | His |
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| Lys | Thr | Val | Pro | Ser | Lys | Met | Glu | Ile | His | Ser | Ser | Pro | Phe | Lys | Cys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Thr | Ala | Pro | Pro | Cys | Asn | Thr | Ser | Gly | Gln | Gly | Lys | Ile | Thr | Glu |
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| His | Ser | Cys | Glu | Pro | Asp | Phe | Cys | Cys | Leu | Trp | Ile | Asp | Lys | Lys | Gln |
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| Asn | Ser | Phe | Ser | Ser | Gly | Val | Gly | Asn | Arg | Ser | Leu | Asp | Ser | Leu | Leu |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ile | Lys | Gly | Ser | Ser | Pro | Phe | Leu | Val | Leu | Gly | Val | Arg | Gly | Ser | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Lys | Met | His | Pro | Ser | Ile | Val | Ala | Phe |     |     |     |     |     |     |
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<400> 10635

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Asp Ala Ala Asp Ala Ala Ala Ala Glu Glu Glu Asp Gly Glu Phe Leu  
65 70 75 80  
Gly Met Lys Gly Phe Lys Gly Gln Leu Ser Arg Gln Val Ala Asp Gln  
85 90 95  
Met Trp Gln Ala Gly Lys Arg Gln Ala Ser Arg Ala Phe Ser Leu Tyr  
100 105 110  
Ala Asn Ile Asp Ile Leu Arg Pro Tyr Phe Asp Val Glu Pro Ala Gln  
115 120 125  
Val Arg Ser Arg Leu Leu Glu Ser Met Ile Pro Ile Lys Val Val Asn  
130 135 140  
Phe Pro Gln Lys Ile Ala Gly Glu Leu Tyr Gly Pro Leu Met Leu Val  
145 150 155 160  
Phe Thr Leu Val Ala Ile Leu Leu His Gly Met Lys Thr Ser Asp Thr  
165 170 175  
Ile Ile Arg Glu Gly Thr Leu Met Gly Thr Ala Ile Gly Thr Cys Phe  
180 185 190  
Gly Tyr Trp Leu Gly Val Ser Ser Phe Ile Tyr Phe Leu Ala Tyr Leu  
195 200 205  
Cys Asn Ala Gln Ile Thr Met Leu Gln Met Leu Ala Leu Leu Gly Tyr  
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Gly Leu Phe Gly His Cys Ile Val Leu Phe Ile Thr Tyr Asn Ile His  
225 230 235 240  
Leu His Ala Leu Phe Tyr Leu Phe Trp Leu Leu Val Gly Gly Leu Ser  
245 250 255  
Thr Leu Arg Met Val Ala Val Leu Val Ser Arg Thr Val Gly Pro Thr  
260 265 270  
Gln Arg Leu Leu Leu Cys Gly Thr Leu Ala Ala Leu His Met Leu Phe  
275 280 285  
Leu Leu Tyr Leu His Phe Ala Tyr His Lys Val Val Glu Gly Ile Leu  
290 295 300  
Asp Thr Leu Glu Gly Pro Asn Ile Pro Pro Ile Gln Arg Val Pro Arg  
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Lys Arg Val Trp Val Pro Asp Glu Gln Asp Ala Tyr Val Glu Ala Glu
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Val Lys Ser Glu Ala Thr Gly Gly Arg Val Thr Val Glu Thr Lys Asp
          50          55          60
Gln Lys Val Leu Met Val Arg Glu Ala Glu Leu Gln Pro Met Asn Pro

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Pro | Arg | Phe | Asp | Leu | Leu | Glu | Asp | Met | Ala | Met | Met | Thr | His | Leu | Asn |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Ala | Ser | Val | Leu | His | Asn | Leu | Arg | Gln | Arg | Tyr | Ala | Arg | Trp | Met |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Tyr | Thr | Tyr | Ser | Gly | Leu | Phe | Cys | Val | Thr | Ile | Asn | Pro | Tyr | Lys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Trp | Leu | Pro | Val | Tyr | Thr | Ala | Ser | Val | Val | Ala | Ala | Tyr | Lys | Gly | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Arg | Arg | Ser | Asp | Ser | Pro | His | Ile | Tyr | Ala | Val | Ala | Asp | Asn | Ala |     |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Tyr | Asn | Asp | Met | Leu | Arg | Asn | Arg | Asp | Asn | Gln | Ser | Met | Leu | Ile | Thr |
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| Met | Thr | Lys | Thr | Asp | Lys | Ser | Ser | Ser | Gly | Ala | Lys | Lys | Lys | Asp | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Ser | Lys | Gly | Ala | Glu | Asp | Asn | Met | Val | Thr | Ser | Tyr | Asn | Cys | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Phe | Cys | Asp | Phe | Arg | Tyr | Ser | Lys | Ser | His | Gly | Pro | Asp | Val | Ile | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Gly | Pro | Leu | Leu | Arg | His | Tyr | Gln | Gln | Leu | His | Asn | Ile | His | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Cys | Thr | Ile | Lys | His | Cys | Pro | Phe | Cys | Pro | Arg | Gly | Leu | Cys | Ser | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Lys | His | Leu | Gly | Glu | Ile | Thr | Tyr | Pro | Phe | Ala | Cys | Arg | Lys | Ser |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asn | Cys | Ser | His | Cys | Ala | Leu | Leu | Leu | His | Leu | Ser | Pro | Gly | Ala |     |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Ala | Gly | Ser | Ser | Arg | Val | Lys | His | Gln | Cys | His | Gln | Cys | Ser | Phe | Thr |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Thr | Pro | Asp | Val | Asp | Val | Leu | Phe | His | Tyr | Glu | Ser | Val | His | Glu |     |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |
| Ser | Gln | Ala | Ser | Asp | Val | Lys | Gln | Glu | Ala | Asn | His | Leu | Gln | Gly | Ser |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |
| Asp | Gly | Gln | Gln | Ser | Val | Lys | Glu | Ser | Lys | Glu | His | Ser | Cys | Thr |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |
| Cys | Asp | Phe | Ile | Thr | Gln | Val | Glu | Glu | Glu | Ile | Ser | Arg | His | Tyr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |
| Arg | Ala | His | Ser | Cys | Tyr | Lys | Cys | Arg | Gln | Cys | Ser | Phe | Thr | Ala |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |
| Asp | Thr | Gln | Ser | Leu | Leu | Glu | His | Phe | Asn | Thr | Val | His | Cys | Gln |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |
| Gln | Asp | Ile | Thr | Thr | Ala | Asn | Gly | Glu | Glu | Asp | Gly | His | Ala | Ile |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |
| Thr | Ile | Lys | Glu | Glu | Pro | Lys | Ile | Asp | Phe | Arg | Val | Tyr | Asn | Leu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |
| Thr | Pro | Asp | Ser | Lys | Met | Gly | Glu | Pro | Val | Ser | Glu | Ser | Val | Val |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Arg | Glu | Lys | Leu | Glu | Glu | Lys | Asp | Gly | Leu | Lys | Glu | Lys | Val | Trp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |
| Glu | Ser | Ser | Ser | Asp | Asp | Leu | Arg | Asn | Val | Thr | Trp | Arg | Gly | Ala |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |
| Ile | Leu | Arg | Gly | Ser | Pro | Ser | Tyr | Thr | Gln | Ala | Ser | Leu | Gly | Leu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |
| Thr | Pro | Val | Ser | Gly | Thr | Gln | Glu | Gln | Thr | Lys | Thr | Leu | Arg | Asp |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |
| Pro | Asn | Val | Glu | Ala | Ala | His | Leu | Ala | Arg | Pro | Ile | Tyr | Gly | Leu |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |
| Val | Glu | Thr | Lys | Gly | Phe | Leu | Gln | Gly | Ala | Pro | Ala | Gly | Gly | Glu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |
| Ser | Gly | Ala | Leu | Pro | Gln | Gln | Tyr | Pro | Ala | Ser | Gly | Glu | Asn | Lys |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |
| Lys | Asp | Glu | Ser | Gln | Ser | Leu | Leu | Arg | Arg | Arg | Arg | Gly | Ser | Gly |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |
| Phe | Cys | Ala | Asn | Cys | Leu | Thr | Thr | Lys | Thr | Ser | Leu | Trp | Arg | Lys |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |
| Ala | Asn | Gly | Gly | Tyr | Val | Cys | Asn | Ala | Cys | Gly | Leu | Tyr | Gln | Lys |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |
| His | Ser | Thr | Pro | Arg | Pro | Leu | Asn | Ile | Ile | Lys | Gln | Asn | Asn | Gly |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |
| Gln | Ile | Ile | Arg | Arg | Arg | Thr | Arg | Lys | Arg | Leu | Asn | Pro | Glu | Ala |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |
| Gln | Ala | Glu | Gln | Leu | Asn | Lys | Gln | Gln | Arg | Gly | Ser | Asn | Glu | Glu |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | 480 |
| Val | Asn | Gly | Ser | Pro | Leu | Glu | Arg | Arg | Ser | Glu | Asp | His | Leu | Thr |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Ser | His | Gln | Arg | Glu | Ile | Pro | Leu | Pro | Ser | Leu | Ser | Lys | Tyr | Glu |
|     |     | 500 |     |     |     |     |     | 505 |     |     |     |     | 510 |     |
| Gln | Gly | Ser | Leu | Thr | Lys | Ser | His | Ser | Ala | Gln | Gln | Pro | Val | Leu |
|     | 515 |     |     |     |     |     | 520 |     |     |     |     | 525 |     |     |
| Ser | Gln | Thr | Leu | Asp | Ile | His | Lys | Arg | Met | Gln | Pro | Leu | His | Ile |

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 Tyr Met Arg Pro Ala Lys His Pro Asn Tyr Ser Pro Pro Gly Ser Pro  
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 610 615 620  
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 Pro Asn Pro Cys Gln Asn Tyr Val Pro Tyr Pro Thr Phe Asn Leu Pro  
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 Pro His Phe Ser Ala Val Gly Ser Asp Asn Asp Ile Pro Leu Asp Leu  
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 675 680 685  
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 705 710 715 720  
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|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Ala | Met | Glu | Tyr | Gly | Gly | Glu | Lys | Ser | Leu | Asn | Asp | Leu | Ile | Glu |
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| Glu | Arg | Tyr | Lys | Ala | Ser | Gln | Asp | Pro | Phe | Pro | Ala | Ala | Ile | Ile | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Ala | Leu | Asn | Met | Ala | Arg | Gly | Leu | Lys | Tyr | Leu | His | Gln | Glu |
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|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
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|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
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| Ala | Ala | Leu | Gly | Thr | Arg | Pro | Pro | Ile | Asn | Met | Glu | Glu | Leu | Asp | Glu |
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<400> 10651

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| Met | Glu | Phe | Val | Phe | Gly | Thr | Thr | Phe | Val | Cys | Asp | Asn | Met | Asp | Asn |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ala | Lys | Lys | Val | Ala | Phe | Asp | Lys | Arg | Ile | Met | Thr | Arg | Thr | Val | Thr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Gly | Gly | Asp | Val | Phe | Asp | Pro | His | Gly | Thr | Leu | Ser | Gly | Gly | Ala |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Arg | Ser | Gln | Ala | Ala | Ser | Ile | Leu | Thr | Lys | Phe | Gln | Glu | Leu | Lys | Asp |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Val | Gln | Asp | Glu | Leu | Arg | Ile | Lys | Glu | Asn | Glu | Leu | Arg | Ala | Leu | Glu |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Glu | Leu | Ala | Gly | Leu | Lys | Asn | Thr | Ala | Glu | Lys | Tyr | Arg | Gln | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Gln | Gln | Trp | Glu | Met | Lys | Thr | Glu | Glu | Ala | Asp | Leu | Leu | Gln | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Leu | Gln | Gln | Ser | Ser | Tyr | His | Lys | Gln | Gln | Glu | Glu | Leu | Asp | Ala |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Lys | Lys | Thr | Ile | Glu | Glu | Ser | Glu | Glu | Thr | Leu | Lys | Asn | Thr | Lys |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Glu | Ile | Gln | Arg | Lys | Ala | Glu | Glu | Lys | Tyr | Glu | Val | Leu | Glu | Asn | Lys |
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| agacttttat  | gaatacatgg | tttcaatcaa | gtccccagag  | aacacatttg  | tcttctgagc  | 180  |
| tgctggcagt  | tttgagaatc | tgatgacctc | cgagggggacc | ctgcactcag  | ccatcaaaagt | 240  |
| gttcctgccc  | ctctggacac | tcataattca | atggtagatg  | caggtggagt  | tgagaacatc  | 300  |
| accagcttc   | cccaggagct | tcctcagatg | atggctgcag  | cagccgatgg  | tttggggagt  | 360  |
| atagcगतग    | acacgaccca | gctcaacatg | tcctgacag   | atcccacagc  | ctgggctaca  | 420  |
| gccatgaata  | acctgggcat | ggttcccgta | gggttgccctg | gacagcagct  | cgtgtctgac  | 480  |
| tcaatctgtg  | tcccaggctt | tgatccaagc | ctcaacatga  | tgactggaat  | cacccccatt  | 540  |
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| gaaaatgcta  | ctgaggaaat | tattcaagaa | gtctttgaac  | agtgcgggtga | tattacagca  | 780  |
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| gaacgagggg  | aagtgaatcg | gcgctctgca | aaccagttct  | attccatggt  | gcagtctggcc | 1200 |
| aacagccacg  | tccgccggct | aatgaatgaa | aaagccaccc  | atgagcaaga  | gatggaggaa  | 1260 |
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<212> PRT

<213> Homo sapiens

<400> 10653

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| Met | Val | Asp | Ala | Gly | Gly | Val | Glu | Asn | Ile | Thr | Gln | Leu | Pro | Gln | Glu |  |  |  |  |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |  |  |  |  |
| Leu | Pro | Gln | Met | Met | Ala | Ala | Ala | Ala | Asp | Gly | Leu | Gly | Ser | Ile | Ala |  |  |  |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |  |  |  |  |
| Ile | Asp | Thr | Thr | Gln | Leu | Asn | Met | Ser | Val | Thr | Asp | Pro | Thr | Ala | Trp |  |  |  |  |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |  |  |  |  |
| Ala | Thr | Ala | Met | Asn | Asn | Leu | Gly | Met | Val | Pro | Val | Gly | Leu | Pro | Gly |  |  |  |  |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |  |  |
| Gln | Gln | Leu | Val | Ser | Asp | Ser | Ile | Cys | Val | Pro | Gly | Phe | Asp | Pro | Ser |  |  |  |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |  |  |  |
| Leu | Asn | Met | Met | Thr | Gly | Ile | Thr | Pro | Ile | Asn | Pro | Met | Ile | Pro | Gly |  |  |  |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |  |  |
| Leu | Gly | Leu | Val | Pro | Pro | Pro | Pro | Pro | Thr | Glu | Val | Ala | Val | Val | Lys |  |  |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |  |  |
| Glu | Ile | Ile | His | Cys | Lys | Ser | Cys | Thr | Leu | Phe | Pro | Gln | Asn | Pro | Asn |  |  |  |  |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |  |  |  |
| Leu | Pro | Pro | Pro | Ser | Thr | Arg | Glu | Arg | Pro | Pro | Gly | Cys | Lys | Thr | Val |  |  |  |  |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |  |  |  |
| Phe | Val | Gly | Gly | Leu | Pro | Glu | Asn | Ala | Thr | Glu | Glu | Ile | Ile | Gln | Glu |  |  |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |  |  |
| Val | Phe | Glu | Gln | Cys | Gly | Asp | Ile | Thr | Ala | Ile | Arg | Lys | Ser | Lys | Lys |  |  |  |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |  |  |
| Asn | Phe | Cys | His | Ile | Arg | Phe | Ala | Glu | Glu | Phe | Met | Val | Asp | Lys | Ala |  |  |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |  |  |
| Ile | Tyr | Leu | Ser | Gly | Tyr | Arg | Met | Arg | Leu | Gly | Ser | Ser | Thr | Asp | Lys |  |  |  |  |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |  |  |  |
| Lys | Asp | Ser | Gly | Arg | Leu | His | Val | Asp | Phe | Ala | Gln | Ala | Arg | Asp | Asp |  |  |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |  |  |
| Phe | Tyr | Glu | Trp | Glu | Cys | Lys | Gln | Arg | Met | Arg | Ala | Arg | Glu | Glu | Arg |  |  |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |  |
| His | Arg | Arg | Lys | Leu | Glu | Glu | Asp | Arg | Leu | Arg | Pro | Pro | Ser | Pro | Pro |  |  |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |  |
| Ala | Ile | Met | His | Tyr | Ser | Glu | His | Glu | Ala | Ala | Leu | Leu | Ala | Glu | Lys |  |  |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |  |  |
| Leu | Lys | Asp | Asp | Ser | Lys | Ser | Ser | Glu | Ala | Ile | Thr | Val | Leu | Leu | Ser |  |  |  |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |  |  |  |  |
| Trp | Ile | Glu | Arg | Gly | Glu | Val | Asn | Arg | Arg | Ser | Ala | Asn | Gln | Phe | Tyr |  |  |  |  |
|     |     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |  |  |  |  |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Met | Val | Gln | Ser | Ala | Asn | Ser | His | Val | Arg | Arg | Leu | Met | Asn | Glu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Ala | Thr | His | Glu | Gln | Glu | Met | Glu | Glu | Ala | Lys | Glu | Asn | Phe | Lys |
|     |     |     |     | 325 |     |     |     |     |     | 330 |     |     |     | 335 |     |
| Asn | Ala | Leu | Thr | Gly | Ile | Leu | Thr | Gln | Phe | Glu | Gln | Ile | Val | Ala | Val |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Phe | Asn | Ala | Ser | Thr | Arg | Gln | Lys | Ala | Trp | Asp | His | Phe | Ser | Lys | Ala |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Gln | Arg | Lys | Asn | Ile | Asp | Ile | Trp | Arg | Lys | His | Ser | Glu | Glu | Leu | Arg |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Asn | Ala | Gln | Ser | Glu | Gln | Leu | Met | Gly | Ile | Arg | Arg | Glu | Glu | Glu | Met |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Glu | Met | Ser | Asp | Asp | Glu | Asn | Cys | Asp | Ser | Pro | Thr | Lys | Lys | Met | Arg |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Val | Asp | Glu | Ser | Ala | Leu | Ala | Ala | Gln | Ala | Tyr | Ala | Leu | Lys | Glu | Glu |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Asn | Asp | Ser | Leu | Arg | Trp | Gln | Leu | Asp | Ala | Tyr | Arg | Asn | Glu | Val | Glu |
|     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |
| Leu | Leu | Lys | Gln | Glu | Lys | Glu | Gln | Leu | Phe | Arg | Thr | Glu | Glu | Asn | Leu |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Thr | Lys | Asp | Gln | Gln | Leu | Gln | Phe | Leu | Gln | Gln | Thr | Met | Gln | Gly | Met |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Gln | Gln | Gln | Leu | Leu | Thr | Ile | Gln | Glu | Glu | Leu | Asn | Asn | Lys | Lys | Ser |
|     |     |     | 485 |     |     |     |     |     |     | 490 |     |     |     | 495 |     |
| Glu | Leu | Glu | Gln | Ala | Lys | Glu | Glu | Gln | Ser | His | Thr | Gln | Ala | Leu | Leu |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Lys | Val | Leu | Gln | Glu | Gln | Leu | Lys | Gly | Thr | Lys | Glu | Leu | Val | Glu | Thr |
|     | 515 |     |     |     |     | 520 |     |     |     |     |     | 525 |     |     |     |
| Asn | Gly | His | Ser | His | Glu | Asp | Ser | Asn | Glu | Ile | Asn | Val | Leu | Thr | Val |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Ala | Leu | Val | Asn | Gln | Asp | Arg | Glu | Asn | Asn | Ile | Glu | Lys | Arg | Ser | Gln |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Gly | Leu | Lys | Ser | Glu | Lys | Glu | Ala | Leu | Leu | Ile | Gly | Ile | Ile | Ser | Thr |
|     |     |     | 565 |     |     |     |     | 570 |     |     |     |     |     | 575 |     |
| Phe | Leu | His | Val | His | Pro | Phe | Gly | Ala | Asn | Ile | Glu | Tyr | Leu | Trp | Ser |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Tyr | Met | Gln | Gln | Leu | Asp | Ser | Lys | Ile | Ser | Ala | Asn | Glu | Ile | Glu | Met |
|     | 595 |     |     |     |     | 600 |     |     |     |     |     | 605 |     |     |     |
| Leu | Leu | Met | Arg | Leu | Pro | Arg | Met | Phe | Lys | Gln | Glu | Phe | Thr | Gly | Val |
|     | 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |
| Gly | Ala | Thr | Leu | Glu | Lys | Arg | Trp | Lys | Leu | Cys | Ala | Phe | Glu | Gly | Ile |
| 625 |     |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |
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Glu Arg Phe Val Gly Gln Met Met Glu Ile Lys Arg Lys Thr Arg Glu
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| ttggcatgag  | ccaaagagtc  | tgtcttaatt  | ttacttttga  | aatctgtctg  | agcggccacc | 2760 |

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| ctatgatgga | atctgttctt | ttctatccta | cttttttctc  | tcttctctct | ctcaccacat | 2940 |
| tataccctgc | tcttacgcag | taaacgtttt | aatggcccg   | ttatgtctca | tgcctccaaa | 3000 |
| caacactgaa | tttgaacccc | cccatTTTT  | cttttcacca  | ccctgttgag | caattttccc | 3060 |
| aaaaaaagg  | cagcaattat | taaattgaat | tcaagtttct  | agattttact | aagttttatt | 3120 |
| ttgtcagggt | ttttaaattt | tttcagttag | cgtgggtgact | gcagaggtta | gtgctgtgaa | 3180 |
| aagctgggct | aaatatctct | tctgtaaagt | caaacaggat  | tccatcccc  | gtgaaataac | 3240 |
| acaaaatttc | actctctaaa | agcaacagca | tgtaaactag  | aatgaaagaa | ggaaattatg | 3300 |
| tacgtatgcc | taatattctt | tgtgaatgtc | tttcatTTAA  | ctaaaattat | attagaaacc | 3360 |
| agattgataa | ataaaaaatt | caaagtagtt | ttaattatcc  | t          |            | 3401 |

<210> 10659  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (251).. (1192)

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|-------------|-------------|-------------|-------------|-------------|------------|------|
| <400> 10659 |             |             |             |             |            |      |
| aaaaccgcgg  | ttgccggagc  | ccgaactgag  | gcggcggcgg  | gagcccgggt  | ggcgtctggt | 60   |
| cttcgcgtcg  | gccccgcgga  | gccagacgct  | gcccccggcg  | cgggggagaag | atggtgccta | 120  |
| gcggcctcgg  | gccccgccacg | cgccgccacg  | agttagccca  | gcgcgacccg  | gggcgtccgc | 180  |
| cgagcagctg  | gccccggctgg | gccccggggcg | cgcagctgcc  | cgccggggcg  | gggtggagct | 240  |
| gatcagaata  | atgttcagca  | tcaaccccc   | ggagaacctg  | aagggtgtaca | tcagcagctg | 300  |
| gcctccccctg | gtgggtcttca | tgatcagcgt  | aagcgccatg  | gccatagctt  | tcctgaccct | 360  |
| gggctacttc  | ttcaaaatca  | aggagattaa  | atccccagaa  | atggcagagg  | attggaatac | 420  |
| ttttctgcta  | cggttcaatg  | atttggaact  | gtgtgtatca  | gagaatgaaa  | ccctcaagca | 480  |
| tctcacaaac  | gacaccacaa  | ctccggaaag  | tacaatgacc  | agcgggcagg  | cccagacttc | 540  |
| caccagctcc  | ccccaggccc  | tggaggactc  | gggcccgggtg | aatatctcag  | tcctaatcac | 600  |
| cctaaccctg  | gaccactga   | aacccttcgg  | agggtattcc  | cgcaacgtca  | cccatctgta | 660  |
| ctcaaccatc  | ttagggcatc  | agattggact  | ttcaggcagg  | gaagcccacg  | aggagataaa | 720  |
| catcaccttc  | accctgccta  | cagcgtggag  | ctcagatgac  | tgcgccctcc  | acggtcactg | 780  |
| tgagcagggtg | gtattcacag  | cctgcatgac  | cctcacggcc  | agccctgggg  | tggtccccgt | 840  |
| caactgtacag | ccaccgcact  | gtgttcctga  | cacgtacagc  | aacgccacgc  | tctggtacaa | 900  |
| gatcttcaca  | actgccagag  | atgccaacac  | aaaatacgcc  | caagattaca  | atcctttctg | 960  |
| gtgttataag  | ggggccattg  | gaaaagtcta  | tcatgcttta  | aatcccaagc  | ttacagtgat | 1020 |
| tggtccagat  | gatgaccgtt  | cattaataaa  | tttgcattct  | atgcacacca  | gttacttcct | 1080 |
| ctttgtgatg  | gtgataacaa  | tgttttgcta  | tgctgttatc  | aagggcagac  | ctagcaaatt | 1140 |
| gcgtcagagc  | aatcctgaat  | tttgtcccga  | gaagggtggct | ttggctgaag  | cctaattcca | 1200 |
| cagctccttg  | ttttttgaga  | gagactgaga  | gaaccataat  | ccttgccctgc | tgaaccacgc | 1260 |
| ctgggcctgg  | atgctctgtg  | aatacattat  | cttgcgatgt  | tgggttattc  | cagccaaaga | 1320 |
| catttcaagt  | gcctgtaact  | gatttgtaca  | tatttataaa  | aatctattca  | gaaattggct | 1380 |
| caataatgca  | cgtgctttgc  | cctgggtaca  | gccagagccc  | ttcaacccca  | ccttggactt | 1440 |
| gaggacctac  | ctgatgggac  | gtttccacgt  | gtctctagag  | aaggattcct  | ggatctagct | 1500 |

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ggtcacgacg atgttttcac caaggtcaca ggagcattgc gtcgctgatg gggttgaagt 1560  
 ttggttttgt tcttgtttca gcccaatatg tagagaacat ttgaaacagt ctgcaccttt 1620  
 gatacggat tgcattttcca aagccaccaa tccattttgt ggattttatg tgtctgtggc 1680  
 ttaataatca tagtaacaac aataatacct tttcctccat tttgcttgca ggaaacatac 1740  
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<210> 10660

<211> 314

<212> PRT

<213> Homo sapiens

<400> 10660

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Ser | Ile | Asn | Pro | Leu | Glu | Asn | Leu | Lys | Val | Tyr | Ile | Ser | Ser | 1   | 5   | 10  | 15  |
| Arg | Pro | Pro | Leu | Val | Val | Phe | Met | Ile | Ser | Val | Ser | Ala | Met | Ala | Ile | 20  | 25  | 30  |     |
| Ala | Phe | Leu | Thr | Leu | Gly | Tyr | Phe | Phe | Lys | Ile | Lys | Glu | Ile | Lys | Ser | 35  | 40  | 45  |     |
| Pro | Glu | Met | Ala | Glu | Asp | Trp | Asn | Thr | Phe | Leu | Leu | Arg | Phe | Asn | Asp | 50  | 55  | 60  |     |
| Leu | Asp | Leu | Cys | Val | Ser | Glu | Asn | Glu | Thr | Leu | Lys | His | Leu | Thr | Asn | 65  | 70  | 75  | 80  |
| Asp | Thr | Thr | Thr | Pro | Glu | Ser | Thr | Met | Thr | Ser | Gly | Gln | Ala | Arg | Ala | 85  | 90  | 95  |     |
| Ser | Thr | Gln | Ser | Pro | Gln | Ala | Leu | Glu | Asp | Ser | Gly | Pro | Val | Asn | Ile | 100 | 105 | 110 |     |
| Ser | Val | Ser | Ile | Thr | Leu | Thr | Leu | Asp | Pro | Leu | Lys | Pro | Phe | Gly | Gly | 115 | 120 | 125 |     |
| Tyr | Ser | Arg | Asn | Val | Thr | His | Leu | Tyr | Ser | Thr | Ile | Leu | Gly | His | Gln | 130 | 135 | 140 |     |
| Ile | Gly | Leu | Ser | Gly | Arg | Glu | Ala | His | Glu | Glu | Ile | Asn | Ile | Thr | Phe | 145 | 150 | 155 | 160 |
| Thr | Leu | Pro | Thr | Ala | Trp | Ser | Ser | Asp | Asp | Cys | Ala | Leu | His | Gly | His | 165 | 170 | 175 |     |
| Cys | Glu | Gln | Val | Val | Phe | Thr | Ala | Cys | Met | Thr | Leu | Thr | Ala | Ser | Pro | 180 | 185 | 190 |     |
| Gly | Val | Phe | Pro | Val | Thr | Val | Gln | Pro | Pro | His | Cys | Val | Pro | Asp | Thr | 195 | 200 | 205 |     |
| Tyr | Ser | Asn | Ala | Thr | Leu | Trp | Tyr | Lys | Ile | Phe | Thr | Thr | Ala | Arg | Asp | 210 | 215 | 220 |     |
| Ala | Asn | Thr | Lys | Tyr | Ala | Gln | Asp | Tyr | Asn | Pro | Phe | Trp | Cys | Tyr | Lys | 225 | 230 | 235 | 240 |
| Gly | Ala | Ile | Gly | Lys | Val | Tyr | His | Ala | Leu | Asn | Pro | Lys | Leu | Thr | Val | 245 | 250 | 255 |     |
| Ile | Val | Pro | Asp | Asp | Arg | Ser | Leu | Ile | Asn | Leu | His | Leu | Met | His |     | 260 | 265 | 270 |     |
| Thr | Ser | Tyr | Phe | Leu | Phe | Val | Met | Val | Ile | Thr | Met | Phe | Cys | Tyr | Ala |     |     |     |     |

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|   |     |     |
|---|-----|-----|
| 275   | 280 | 285 |
| Val Ile Lys Gly Arg Pro Ser Lys Leu Arg Gln Ser Asn Pro Glu Phe |     |     |
| 290   | 295 | 300 |
| Cys Pro Glu Lys Val Ala Leu Ala Glu Ala                         |     |     |
| 305   | 310 |     |

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<211> 1451  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (369).. (884)

<400> 10661

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| tgagtttccc  | tgggagggca | gcgcgcttgg  | cgcttctccc | ctccccccga  | tctgcctcca | 120  |
| gtctcggact  | tggttgttgc | gcgctccggc  | tccggctgag | ctgggagagt  | tggaggaggt | 180  |
| ggcggcgggc  | agaggtgatg | tctgggagcc  | cttccttgac | agcccggggc  | gagaagagtc | 240  |
| cctgcgggaa  | gcatcaccca | ggctggcaga  | tcatggtagc | agcagcgggg  | gtggctggga | 300  |
| agtgaacggg  | agccagcggc | tgaggagggg  | ccccagcagc | ccccgaaggc  | cctatcagga | 360  |
| catggagtat  | gaaagacgtg | gtggttgttg  | tgacaggact | ggccgctatg  | gagccactga | 420  |
| ccgctcgcag  | gatgatgggt | gggagaaccg  | cagccgagac | cacgactacc  | gggacatgga | 480  |
| ctaccgttca  | tatcctcgcg | agtatggcag  | ccaggagggc | aagcatgact  | atgacgactc | 540  |
| atctgaggag  | cagagtgcgg | aggattccta  | cgaggcctcc | ccgggctccg  | agactcagcg | 600  |
| taggcggcgg  | cggcggcaca | ggcttcccc   | gagacggcga | ctatcgggac  | caggactatc | 660  |
| ggaccgagca  | aggggaggag | gaggaggagg  | aggaggatga | ggaggaggag  | gagaaggcca | 720  |
| gtaacatcgt  | catgctgagg | atgctgccac  | aggcagccac | tgaggatgac  | atccgtggcc | 780  |
| agctgcagtc  | gcacggcgtg | caagcacggg  | aggttcggct | gatgcggaac  | aaatcttcag | 840  |
| cactccctca  | acatcctggg | ccagaagggt  | tcgatgcact | acagtgacct  | caagcccaag | 900  |
| atcaatgagg  | actggctgtg | caataagttg  | ggcgtccaga | gcccgaaggg  | aggaagtacg | 960  |
| goggcataatc | cacagcctct | gtagacttgc  | agcagcctac | tcgggacggg  | ctgggcagtg | 1020 |
| acaacatttg  | cagtcgggat | ctgcaggcca  | tgggctggaa | agagggcagc  | ggcctggggc | 1080 |
| gcaagaagca  | gggcattgta | acgcctatcg  | aggcccaaac | acgggtgcgg  | ggctccggcc | 1140 |
| tgggtgcacg  | gggcagctcc | tacgggggtca | cctcaaccga | gtcctacaag  | gagacactgc | 1200 |
| acaagacaat  | ggtgaccgcg | ttcaacgagg  | cccagtgagc | agcttcaaga  | gcaacttctc | 1260 |
| cacatgtttg  | gtgtccatcc | tggggcaggg  | caggacagag | tgttggatgg  | ctgggacggg | 1320 |
| gccttgctct  | tgtcggccag | cccactcccc  | agccagagag | ggcttgacca  | aatcaaatgt | 1380 |
| agggtggtgac | ttttgttgga | aaattgggct  | gggatcacgt | cctgttttgt  | aataaaagct | 1440 |
| gaaaagtctg  | c          |             |            |             |            | 1451 |

<210> 10662  
<211> 172  
<212> PRT  
<213> Homo sapiens

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<400> 10662

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Asp | Val | Val | Val | Val | Val | Thr | Gly | Leu | Ala | Ala | Met | Glu | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Thr | Ala | Arg | Arg | Met | Met | Val | Gly | Arg | Thr | Ala | Ala | Glu | Thr | Thr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Thr | Gly | Thr | Trp | Thr | Thr | Val | His | Ile | Leu | Ala | Ser | Met | Ala | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Arg | Ala | Ser | Met | Thr | Met | Thr | Thr | His | Leu | Arg | Ser | Arg | Val | Arg |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Ile | Pro | Thr | Arg | Pro | Pro | Arg | Ala | Pro | Arg | Leu | Ser | Val | Gly | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gly | Gly | Gly | Thr | Gly | Phe | Pro | Arg | Asp | Gly | Asp | Tyr | Arg | Asp | Gln | Asp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Tyr | Arg | Thr | Glu | Gln | Gly | Glu | Glu | Glu | Glu | Glu | Glu | Glu | Asp | Glu | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Glu | Glu | Lys | Ala | Ser | Asn | Ile | Val | Met | Leu | Arg | Met | Leu | Pro | Gln |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Ala | Thr | Glu | Asp | Asp | Ile | Arg | Gly | Gln | Leu | Gln | Ser | His | Gly | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gln | Ala | Arg | Glu | Val | Arg | Leu | Met | Arg | Asn | Lys | Ser | Ser | Ala | Leu | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gln | His | Pro | Gly | Pro | Glu | Gly | Val | Asp | Ala | Leu | Gln |     |     |     |     |
|     |     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     |     |

<210> 10663

<211> 1643

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (27).. (1643)

<400> 10663

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| tggccctgga | tgctgagttc | ctggacgtgt | acaagaactg  | caacgggggtg | gtcatgatgt | 120 |
| tgcacattac | caagcagtgg | accttcaatt | acattctccg  | ggagcttcca  | aaagtgccca | 180 |
| cccacgtgcc | agtgtgctg  | ctgggaaact | accgggacat  | gggcgagcac  | cgagtcattc | 240 |
| tgccggacga | cgtgcgtgac | ttcatcgaca | acctggacag  | acctccaggt  | tcctcctact | 300 |
| tcgcgtatgc | tgagtcttcc | atgaagaaca | gcttcggcct  | aaagtacott  | cataagttct | 360 |
| tcaatatccc | atttttgcag | cttcagaggg | agacgctgtt  | gcggcagctg  | gagacgaacc | 420 |
| agctggacat | ggacgccacg | ctggaggagc | tgtcgggtgca | gcaggagacg  | gaggaccaga | 480 |
| actacggcat | cttcctggag | atgatggagg | ctcgcagccg  | tggccatgcg  | tccccactgg | 540 |
| cggccaacgg | gcagagccca | tccccgggct | cccagtcacc  | agtgggtgcct | gcaggcgcgt | 600 |
| tgtccacggg | gagctgcagc | cccggcacac | cccagcccgc  | cccacagctg  | cccctcaatg | 660 |
| ccgccccacc | atcctctgtg | ccccctgtac | caccctcaga  | ggccctgccc  | ccacctgcgt | 720 |

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ccccctcagc ccccgcccca cggcgcagca tcctctctag gctgtttggg acgtcacctg 780
ccaccgaggc agccccctcca cctccagagc cagtcccggc cgcacagggc ccagcaacgg 840
tccagagtgt ggaggacttt gttcctgacg accgcctgga ccgcagcttc ctggaagaca 900
caacccccgc cagggacgag aagaaggtgg gggccaaggc tgcccagcag gacagcgaca 960
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gcaaaacccc ctctaaggag aag 1643

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<210> 10664  
 <211> 539  
 <212> PRT  
 <213> Homo sapiens

<400> 10664

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Asn | Asp | Pro | Gln | Glu | Ala | Glu | Ser | Glu | Met | Ala | Leu | Asp | Ala |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Glu | Phe | Leu | Asp | Val | Tyr | Lys | Asn | Cys | Asn | Gly | Val | Val | Met | Met | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Ile | Thr | Lys | Gln | Trp | Thr | Phe | Asn | Tyr | Ile | Leu | Arg | Glu | Leu | Pro |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Val | Pro | Thr | His | Val | Pro | Val | Cys | Val | Leu | Gly | Asn | Tyr | Arg | Asp |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Met | Gly | Glu | His | Arg | Val | Ile | Leu | Pro | Asp | Asp | Val | Arg | Asp | Phe | Ile |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Asp | Asn | Leu | Asp | Arg | Pro | Pro | Gly | Ser | Ser | Tyr | Phe | Arg | Tyr | Ala | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Ser | Met | Lys | Asn | Ser | Phe | Gly | Leu | Lys | Tyr | Leu | His | Lys | Phe | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Ile | Pro | Phe | Leu | Gln | Leu | Gln | Arg | Glu | Thr | Leu | Leu | Arg | Gln | Leu |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Thr | Asn | Gln | Leu | Asp | Met | Asp | Ala | Thr | Leu | Glu | Glu | Leu | Ser | Val |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gln | Gln | Glu | Thr | Glu | Asp | Gln | Asn | Tyr | Gly | Ile | Phe | Leu | Glu | Met | Met |
|     |     |     | 145 |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |
| Glu | Ala | Arg | Ser | Arg | Gly | His | Ala | Ser | Pro | Leu | Ala | Ala | Asn | Gly | Gln |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Ser | Pro | Ser | Pro | Gly | Ser | Gln | Ser | Pro | Val | Val | Pro | Ala | Gly | Ala | Val |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Thr | Gly | Ser | Cys | Ser | Pro | Gly | Thr | Pro | Gln | Pro | Ala | Pro | Gln | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Leu | Asn | Ala | Ala | Pro | Pro | Ser | Ser | Val | Pro | Pro | Val | Pro | Pro | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Ala | Leu | Pro | Pro | Pro | Ala | Cys | Pro | Ser | Ala | Pro | Ala | Pro | Arg | Arg |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Ile | Ile | Ser | Arg | Leu | Phe | Gly | Thr | Ser | Pro | Ala | Thr | Glu | Ala | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Pro | Pro | Pro | Pro | Glu | Pro | Val | Pro | Ala | Ala | Gln | Gly | Pro | Ala | Thr | Val |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Gln | Ser | Val | Glu | Asp | Phe | Val | Pro | Asp | Asp | Arg | Leu | Asp | Arg | Ser | Phe |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Glu | Asp | Thr | Thr | Pro | Ala | Arg | Asp | Glu | Lys | Lys | Val | Gly | Ala | Lys |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ala | Ala | Gln | Gln | Asp | Ser | Asp | Ser | Asp | Gly | Glu | Ala | Leu | Gly | Gly | Asn |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Pro | Met | Val | Ala | Gly | Phe | Gln | Asp | Asp | Val | Asp | Leu | Glu | Asp | Gln | Pro |
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| Pro | Ala | Pro | Ala | Pro | Gln | Gln | Cys | Ser | Glu | Pro | Glu | Thr | Lys | Trp | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ser | Ile | Pro | Ala | Ser | Lys | Pro | Arg | Arg | Gly | Thr | Ala | Pro | Thr | Arg | Thr |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Lys | Arg | Ser | Ser | Thr | Arg | Pro | Pro | Ala | Glu | Met | Glu | Pro | Gly | Lys | Gly |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Glu | Gln | Ala | Ser | Ser | Ser | Glu | Ser | Asp | Pro | Glu | Gly | Pro | Ile | Ala | Ala |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Gln | Met | Leu | Ser | Phe | Val | Met | Asp | Asp | Pro | Asp | Phe | Glu | Gly | Glu | Gly |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Ser | Asp | Thr | Gln | Arg | Arg | Ala | Asp | Asp | Phe | Pro | Val | Arg | Asp | Asp | Pro |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Ser | Asp | Val | Thr | Asp | Glu | Asp | Glu | Gly | Pro | Ala | Glu | Pro | Pro | Pro | Pro |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Pro | Lys | Leu | Pro | Leu | Pro | Ala | Phe | Arg | Leu | Lys | Asn | Asp | Ser | Asp | Leu |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Phe | Gly | Leu | Gly | Leu | Glu | Glu | Ala | Gly | Pro | Lys | Glu | Ser | Ser | Glu | Glu |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Gly | Lys | Glu | Gly | Lys | Thr | Pro | Ser | Lys | Glu | Lys |     |     |     |     |     |
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35 40 45

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| Met | Ala | Asn | Pro | Phe | Arg | Asp | Pro | Phe | Ile | Asn | Ser | Leu | Lys | His | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Leu | Val | Tyr | Leu | Trp | Arg | Arg | Ala | Glu | Gln | Asp | Gly | Ser | Ala | Met |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Lys | Arg | Arg | Phe | Phe | Gln | Tyr | Phe | Asp | Gln | Leu | Arg | Gln | Leu | Arg |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Met | Trp | Lys | Met | Gln | Leu | Leu | Asp | Glu | Asn | His | Leu | Phe | Ile | Lys | Tyr |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Thr | Ser | Glu | Asp | Val | Val | Thr | Leu | Arg | Val | Thr | Asp | Pro | Ser | Gln | Ala |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ser | Phe | Phe | Val | Val | Tyr | Asn | Met | Val | Thr | Thr | Glu | Val | Ile | Ala | Val |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Glu | Asn | Thr | Ser | Asp | Glu | Leu | Leu | Glu | Leu | Phe | Glu | Asn | Phe | Cys |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Asp | Leu | Phe | Arg | Asn | Ala | Thr | Leu | His | Ser | Glu | Val | Gln | Phe | Pro | Cys |
|     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |     |
| Ser | Ala | Ser | Ser | Asn | Asn | Phe | Ala | Arg | Gln | Ile | Gln | Arg | Arg | Phe | Lys |
|     | 130 |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |     |
| Asp | Thr | Ile | Ile | Asn | Ala | Lys | Tyr | Gly | Gly | His | Thr | Glu | Ala | Val | Arg |
|     | 145 |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |
| Arg | Leu | Leu | Gly | Gln | Leu | Pro | Ile | Ser | Ala | Gln | Ser | Tyr | Ser | Gly | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Tyr | Leu | Asp | Leu | Ser | Leu | Phe | Ser | Tyr | Asp | Asp | Lys | Trp | Val | Ser |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Met | Glu | Arg | Pro | Lys | Thr | Cys | Gly | Asp | His | Pro | Ile | Arg | Phe | Tyr |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ala | Arg | Asp | Ser | Gly | Leu | Leu | Lys | Phe | Glu | Ile | Gln | Ala | Gly | Leu | Leu |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Gly | Arg | Pro | Ile | Asn | His | Thr | Val | Arg | Arg | Leu | Val | Ala | Phe | Thr | Phe |
|     | 225 |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| His | Pro | Phe | Glu | Pro | Phe | Ala | Ile | Ser | Val | Gln | Arg | Thr | Asn | Ala | Glu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
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<400> 10669

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| gagaagtttc  | taggttttgc | ctgaattgtc | ttttgtacat  | acagtgaatt | gttttgctgt | 420  |
| tctccccact  | ccatattaat | gcaggagcca | ggttgggtctg | ttaggatgaa | caaaggttga | 480  |
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| taagctgttg  | taacgtgtaa | ggcatgaca  | atTTTTgtat  | ttatatgtga | aatcagattt | 960  |
| ctataactcg  | tatttgtgta | cagaattctc | aatggattta  | tatatgtga  | aatttttatt | 1020 |
| tgagattggg  | atgtggatta | tgcttaacag | tgagagctga  | aatgagacca | ttactttgt  | 1080 |
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| gagtttgttt  | atacctccaa | gtttttacac | tgaagataaa  | ctagctttta | ttcaaaactt | 1200 |
| tttttttctt  | tataagggaa | taagctgttg | agctaaacct  | gtataactgt | gctttttatt | 1260 |
| ttctggatgc  | acaatgaaag | tttatacttg | tatctcactg  | catcatatct | gattgcagaa | 1320 |
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| ttcccacagt  | aggtcattat | cccccaacca | taacaccttg  | cagacattga  | aatctgatgg | 900  |
| gaggatgcct  | tctagctcca | gagctgaatc | cccaggacca  | ggttctcggt  | tgtcatctcc | 960  |
| taagccaaag  | actctcccag | ccaataggct | tagcccatcg  | ggtgctagtt  | ctccacgctc | 1020 |
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<212> PRT

<213> Homo sapiens

<400> 10672

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Asp Gln Asn Ser Met Val Glu Phe Cys Glu Ser Asp Glu Gly Glu Ala
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Trp Ser Leu Ala Arg Asp Arg Gly Gly Asn Gln Tyr Leu Arg His Glu
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Gly Phe Asp Tyr Gly Leu Gly Asn Ser Lys Val Leu Thr Val Leu Pro
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Thr Ala Gly Asp Gln Leu Ser Ala Ile Leu Asn Ser Ile Gln Ser Arg
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| Met | Asp | Val | Arg | Phe | Tyr | Pro | Pro | Pro | Ala | Gln | Pro | Ala | Ala | Ala | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Ala | Pro | Cys | Leu | Gly | Pro | Ser | Pro | Cys | Leu | Asp | Pro | Tyr | Tyr | Cys |
|     |     |     | 20  |     |     |     |     |     | 25  |     |     |     | 30  |     |     |
| Asn | Lys | Phe | Asp | Gly | Glu | Asn | Met | Tyr | Met | Ser | Met | Thr | Glu | Pro | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Asp | Tyr | Val | Pro | Ala | Ser | Gln | Ser | Tyr | Pro | Gly | Pro | Ser | Leu | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Glu | Asp | Phe | Asn | Ile | Pro | Pro | Ile | Thr | Pro | Pro | Ser | Leu | Pro | Asp |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| His | Ser | Leu | Val | His | Leu | Thr | Ala | Met | His | Pro | Ser | Leu | Pro | Arg | Asn |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ile | Ala | Pro | Lys | Pro | Asn | Asn | Gln | Met | Pro | Val | Thr | Val | Ser | Ile | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Met | Ala | Val | Ser | Pro | Pro | Pro | Pro | Leu | Gln | Ile | Ser | Pro | Pro | Leu |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| His | Gln | His | Leu | Asn | Met | Gln | Gln | His | Gln | Pro | Leu | Thr | Met | Gln | Gln |



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<400> 10681

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-4165/13211-

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |  |
| Leu | Ala | Ser | Ala | Leu | Arg | Arg | Asp | Ser | Gly | Gln | Ala | Phe | Ser | Leu | Glu |  |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |
| Gln | Leu | Arg | Pro | Leu | Leu | Ala | Ser | Ser | Leu | Pro | Leu | Ala | Ala | Arg | Tyr |  |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |  |
| Leu | Gln | Leu | Asp | Ala | Ala | Arg | Leu | Val | Arg | Cys | Asn | Ala | His | Gly | Glu |  |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |
| Pro | Arg | Asn | Tyr | Leu | Asn | Thr | Leu | Pro | Thr | Pro | Ser | Trp | Asp | Gly | Pro |  |  |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |  |  |
| Asp | Lys | Gln | Ser | Leu | Val | Arg | Arg | Leu | Leu | Ala | Val | Tyr | Ala | Leu | Pro |  |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |  |
| Ser | Trp | Gly | Arg | Ala | Glu | Leu | Ala | Leu | Ser | Leu | Leu | Gln | Glu | Thr | Pro |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |
| Arg | Asn | Tyr | Glu | Leu | Gly | Asp | Val | Val | Glu | Ala | Val | Arg | His | Ser | Gln |  |  |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |  |  |
| Asp | Arg | Ala | Phe | Leu | Arg | Arg | Leu | Leu | Ala | Gln | Glu | Cys | Ala | Val | Cys |  |  |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |  |  |
| Gly | Trp | Ala | Leu | Pro | His | Asn | Arg | Met | Gln | Ala | Leu | Thr | Ser | Cys | Glu |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |
| Cys | Thr | Ile | Cys | Pro | Asp | Cys | Phe | Arg | Gln | His | Phe | Thr | Ile | Ala | Leu |  |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |
| Lys | Glu | Lys | His | Ile | Thr | Asp | Met | Val | Cys | Pro | Ala | Cys | Gly | Arg | Pro |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |  |  |
| Asp | Leu | Thr | Asp | Asp | Thr | Gln | Leu | Leu | Ser | Tyr | Phe | Ser | Thr | Leu | Asp |  |  |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |  |
| Ile | Gln | Leu | Arg | Glu | Ser | Leu | Glu | Pro | Asp | Ala | Tyr | Ala | Leu | Phe | His |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |  |  |
| Lys | Lys | Leu | Thr | Glu | Gly | Val | Leu | Met | Arg | Asp | Pro | Lys | Phe | Leu | Trp |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| Cys | Val | Gln | Cys | Ser | Phe | Gly | Phe | Ile | Tyr | Glu | Arg | Glu | Gln | Leu | Glu |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Ala | Thr | Cys | Pro | Gln | Cys | His | Gln | Thr | Phe | Cys | Val | Arg | Cys | Lys | Arg |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |  |  |
| Gln | Trp | Glu | Asp | Phe | Gln | Asn | Trp | Lys | Arg | Met | Asn | Asp | Pro | Glu | Tyr |  |  |
|     |     | 275 |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |  |  |
| Gln | Ala | Gln | Gly | Leu | Ala | Met | Tyr | Leu | Gln | Glu | Asn | Gly | Ile | Asp | Cys |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |
| Pro | Lys | Cys | Lys | Phe | Ser | Tyr | Ala | Leu | Ala | Arg | Gly | Gly | Cys | Met | His |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Phe | His | Cys | Thr | Gln | Cys | Arg | His | Gln | Phe | Cys | Ser | Gly | Cys | Tyr | Asn |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Ala | Phe | Tyr | Ala | Lys | Asn | Lys | Cys | Pro | Glu | Pro | Asn | Cys | Arg | Val | Lys |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Lys | Ser | Leu | His | Gly | His | His | Pro | Arg | Asp | Cys | Leu | Phe | Tyr | Leu | Arg |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |
| Asp | Trp | Thr | Ala | Leu | Arg | Leu | Gln | Lys | Leu | Leu | Gln | Asp | Asn | Asn | Val |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
| Met | Phe | Asn | Thr | Glu | Pro | Pro | Ala | Gly | Ala | Arg | Ala | Val | Pro | Gly | Gly |  |  |

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|                 |                 |                 |             |     |     |     |
|-----------------|-----------------|-----------------|-------------|-----|-----|-----|
| 385             |                 | 390             |             | 395 |     | 400 |
| Gly Cys Arg Val | Ile Glu Gln Lys | Glu Val Pro Asn | Gly Leu Arg | Asp |     |     |
|                 | 405             |                 | 410         |     | 415 |     |
| Glu Ala Cys Gly | Lys Glu Thr Pro | Ala Gly Tyr Ala | Gly Leu Cys | Gln |     |     |
|                 | 420             |                 | 425         |     | 430 |     |
| Ala His Tyr Lys | Glu Tyr Leu Val | Ser Leu Ile Asn | Ala His Ser | Leu |     |     |
|                 | 435             |                 | 440         |     | 445 |     |
| Asp Pro Ala Thr | Leu Tyr Glu Val | Glu Glu Leu Glu | Thr Ala Thr | Glu |     |     |
|                 | 450             |                 | 455         |     | 460 |     |
| Arg Tyr Leu His | Val Arg Pro Gln | Pro Leu Ala Gly | Glu Asp Pro | Pro |     |     |
|                 | 465             |                 | 470         |     | 475 |     |
| Ala Tyr Gln Ala | Arg Leu Leu Gln | Lys Leu Thr Glu | Glu Ile Pro | Leu |     |     |
|                 | 485             |                 | 490         |     | 495 |     |
| Gly Gln Ser Ile | Pro Arg Arg Arg | Lys             |             |     |     |     |
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<400> 10682

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| caaacatggc  | tcactgcagc  | ctcgacctcc | tgggctcaag  | cagtcctcct | gcttcagccc | 120  |
| cacaagtagc  | tgggactaca  | ggcacacacc | accacgccc   | cctctacaaa | aaattgtaaa | 180  |
| aatgagccag  | gcatgtggtg  | gtgtatgcct | acgatcctag  | ctactcagga | ggctgaagtg | 240  |
| ggagaatttt  | ttgagcccag  | gaggtggagg | ctgcagtggg  | ccataatggc | aacactgcgc | 300  |
| tccagcctgg  | cagacagagg  | gaagatatgt | ttgacatagt  | ttagatattt | gtccccaccc | 360  |
| aaatccatgt  | tgaaatgtaa  | tccccaatgt | tggagggtggg | gcctagtggg | aggtgtttgt | 420  |
| catgggggcg  | gatccctcat  | ggcttgggtg | tgctccttgt  | atagttagtt | cacttcatgt | 480  |
| gagatctggg  | ttaaagtgtg  | ggcaccttcg | cctaccccca  | cttgttccca | ccaagtgaga | 540  |
| ttcctgctcc  | tgcttaccct  | tctgccatgt | ttctttaggg  | ctcccagaag | ccaagcagat | 600  |
| gccagctcca  | tgctccctgt  | acagcctaca | gaagcatgag  | ccagttaaag | ctctcttctt | 660  |
| tataaattac  | ccagtccctga | gtatttcttt | atagcaatgc  | gagaacggcc | taacacaagg | 720  |
| ttctagtagg  | gagaaactag  | caagtaaatg | gatacaagac  | agtcactctt | acatttttaa | 780  |
| ttacaggtcc  | ctttgagtag  | acaaaacttt | aagaataggg  | gaaatcattt | acataataat | 840  |
| tgcataccat  | gtcagggcct  | catggactta | agaactaata  | aattcagggt | ggtgatgctt | 900  |
| acctggggagg | cagagggtgt  | tatgggagga | aacagagtgg  | tagtcaggca | aggataggat | 960  |
| agcagggtgc  | cttcccatat  | gatccctgag | cctgggtcct  | atgotgtcaa | ctgactgtac | 1020 |
| ttgotacttt  | aaaatctaag  | ggattgaaaa | atgaatgttg  | agtgattcct | aaactaacac | 1080 |
| gatattaaac  | cgagttccag  | actacaccag | cctaatttta  | tttagtggca | gactctagct | 1140 |
| ctgttgccca  | ggctggagtg  | cagtgggtgt | atctcagctt  | attgcagtct | ccacctcctg | 1200 |
| agttcaagtg  | attcctgtgc  | ctcagttctc | caagtagctg  | ggactacagg | tacgtgccac | 1260 |
| cacacccagc  | cagtttttgt  | acttttagta | gagacagggt  | ttcaccatgt | tgcccagggt | 1320 |
| ggcttcaaac  | tcctggcctc  | aagtgatcca | ctggcctcag  | ccacccaaaa | tgctgggatt | 1380 |
| acaggcatga  | gccaccgtgc  | gggcctctac | tagcctaatt  | gctgcaagtg | tgctagtctg | 1440 |
| atttatcaaa  | ctagatgtaa  | gctgcttgag | gctagggagg  | cttttaccac | gtgcctgaga | 1500 |

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ggcagttggtt ggttataaac ttgccacatg gggctcagat cacctcaagg caaagctacc 1560
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260 265 270  
Ala Val Pro Asn Gly Pro Gln Ser Pro Lys Gln Gln Lys Glu Pro Leu  
275 280 285  
Ser His Arg Phe Asn Glu Phe Met Thr Ser Lys Pro Lys Ile His Cys  
290 295 300  
Phe Arg Ser Leu Glu Arg Gly Gly Ala Thr Pro Glu Asp Phe Ser Asn  
305 310 315 320  
Leu Pro Pro Glu Gln Arg Arg Lys Lys Leu Gln Gln Lys Val Asp Glu  
325 330 335  
Leu Asn Lys Glu Ile Gln Lys Glu Met Asp Gln Arg Asp Ala Ile Thr  
340 345 350  
Lys Met Lys Asp Val Tyr Leu Lys Asn Pro Gln Met Gly Asp Pro Ala  
355 360 365  
Ser Leu Asp His Lys Leu Ala Glu Val Ser Gln Asn Ile Glu Lys Leu  
370 375 380  
Arg Val Glu Thr Gln Lys Phe Glu Ala Trp Leu Ala Glu Val Glu Gly  
385 390 395 400  
Arg Leu Pro Ala Arg Ser Glu Gln Ala Arg Arg Gln Ser Gly Leu Tyr  
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Asp Ser Gln Asn Pro Pro Thr Val Asn Asn Cys Ala Gln Asp Arg Glu  
420 425 430  
Ser Pro Asp Gly Ser Tyr Thr Glu Glu Gln Ser Gln Glu Ser Glu Met  
435 440 445  
Lys Val Leu Ala Thr Asp Phe Asp Asp Glu Phe Asp Asp Glu Glu Pro  
450 455 460  
Leu Pro Ala Ile Gly Thr Cys Lys Ala Leu Tyr Thr Phe Glu Gly Gln  
465 470 475 480  
Asn Glu Gly Thr Ile Ser Val Val Glu Gly Glu Thr Leu Tyr Val Ile  
485 490 495  
Glu Glu Asp Lys Gly Asp Gly Trp Thr Arg Ile Arg Arg Asn Glu Asp  
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<400> 10685

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<211> 163

<212> PRT

<213> Homo sapiens

<400> 10686

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      35           40           45
His Tyr Asp Ile Lys Met Leu Thr Phe Leu Met Leu Val Arg Leu Ser
      50           55           60
Thr Leu Cys Pro Ser Ala Val Leu Gln Arg Leu Asp Arg Leu Val Glu
      65           70           75           80
Pro Leu Arg Thr Thr Cys Thr Thr Lys Val Lys Ala Asn Ser Val Lys
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-4171/13211-

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Ser Glu Phe Gln Ser Gln Ile Ser Ser Asn Pro Glu Leu Ala Ala Ile  
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<213> Homo sapiens

<400> 10690

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35 40 45  
Glu Lys Asn Leu Trp Ser Met Pro His Asp Val Ser His Thr Glu Ala  
50 55 60  
Asp Asp Asp Arg Thr Leu Tyr Asn Leu Ile Val Ile Arg Asn Gln Gln  
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Ala Lys Asp Ser Glu Trp Gln Lys Leu Asn Tyr Asp Ile His Thr  
85 90 95  
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Glu Asp Leu Gly Phe Gln Lys Glu Ala Asp Ser Leu Leu Ser Val Thr  
115 120 125  
Lys Leu Ser Thr Ile Ser Asp Ser Lys Asn Thr Arg Lys Ala Arg Glu  
130 135 140  
Met Leu Leu Lys Leu Ala Glu Glu Thr Ser Ile Phe Pro Thr Ser Trp  
145 150 155 160  
Glu Leu Ser Glu Arg Tyr Leu Phe Val Val Asp Arg Leu Ile Ala Leu  
165 170 175  
Asp Ala Ala Glu Glu Phe Phe Lys Leu Ala Arg Arg Thr Tyr Pro Lys  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 |     | 150 |     | 155 |     | 160 |     |     |     |     |     |     |     |     |     |
| Lys | Lys | Thr | Ala | Val | Lys | Thr | Val | Trp | Val | Glu | Gly | Leu | Ser | Glu | Asp |
|     |     | 165 |     | 170 |     | 175 |     |     |     |     |     |     |     |     |     |
| Gly | Phe | Thr | Tyr | Tyr | Tyr | Asn | Thr | Glu | Thr | Gly | Glu | Ser | Arg | Trp | Glu |
|     |     | 180 |     | 185 |     | 190 |     |     |     |     |     |     |     |     |     |
| Lys | Pro | Asp | Asp | Phe | Ile | Pro | His | Thr | Ser | Asp | Leu | Pro | Ser | Ser | Lys |
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| Val | Asn | Glu | Asn | Ser | Leu | Gly | Thr | Leu | Asp | Glu | Ser | Lys | Ser | Ser | Asp |
|     | 210 |     |     | 215 |     | 220 |     |     |     |     |     |     |     |     |     |
| Ser | His | Ser | Asp | Ser | Asp | Gly | Glu | Gln | Glu | Ala | Glu | Glu | Gly | Gly | Val |
| 225 |     |     |     | 230 |     | 235 |     |     |     |     |     |     |     |     | 240 |
| Ser | Thr | Glu | Thr | Glu | Lys | Pro | Lys | Ile | Lys | Phe | Lys | Glu | Lys | Lys |     |
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<400> 10693

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| cgcggggccg  | gggggtgtcg  | cggggccaac | cccaggatgc | tcccctgcgc | ctcctgccta | 120  |
| cccggtctc   | tactgtctctg | ggcgctgcta | ctgttgctct | tgggatcagc | ttctcctcag | 180  |
| gattctgaag  | agcccagacag | ctacacggaa | tgcacagatg | gctatgagtg | ggaccagac  | 240  |
| agccagcact  | gccgggatgt  | caacgagtgt | ctgaccatcc | ctgaggcctg | caagggggaa | 300  |
| atgaagtgca  | tcaaccacta  | cgggggctac | ttgtgcctgc | ccgctccgc  | tgccgtcatc | 360  |
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| tgcccaccag  | gctatgagcc  | cgacgatcag | gacagctgtg | tggatgtgga | cgagtgtgcc | 480  |
| caggccctgc  | acgactgtcg  | ccccagccag | gactgccata | acttgccctg | ctcctatcag | 540  |
| tgcacctgcc  | ctgatgggta  | ccgcaagatc | gggcccagag | gtgtggacat | agacgagtgc | 600  |
| cgctaccgct  | actgccagca  | ccgctgcgtg | aacctgcctg | gctccttccg | ctgccagtgc | 660  |
| gagccgggct  | tccagctggg  | gcctaacaac | cgctcctgtg | ttgatgtgaa | cgagtgtgac | 720  |
| atggggggccc | catgcgagca  | gcgctgcttc | aactcctatg | ggaccttcct | gtgtcgctgc | 780  |
| caccagggct  | atgagctgca  | tcgggatggc | ttctcctgca | gtgatattga | tgagtgtagc | 840  |
| tactccagct  | acctctgtca  | gtaccgctgc | gtcaacgagc | caggccgttt | ctcctgccac | 900  |
| tgcccacagg  | gttaccagct  | gctggccaca | cgcctctgcc | aagacattga | tgagtgtgag | 960  |
| totggtgcgc  | accagtgtct  | cgaggcccaa | acctgtgtca | acttccatgg | gggctaccgc | 1020 |
| tgctgtggaca | ccaaccgctg  | cgtggagccc | tacatccagg | tctctgagaa | ccgctgtctc | 1080 |
| tgcccggcct  | ccaaccctct  | atgtcgagag | cagccttcac | ccattgtgca | ccgctacatg | 1140 |
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<212> PRT

<213> Homo sapiens

<400> 10694

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| Met | Leu | Pro | Cys | Ala | Ser | Cys | Leu | Pro | Gly | Ser | Leu | Leu | Leu | Trp | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Leu | Leu | Leu | Leu | Leu | Gly | Ser | Ala | Ser | Pro | Gln | Asp | Ser | Glu | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Asp | Ser | Tyr | Thr | Glu | Cys | Thr | Asp | Gly | Tyr | Glu | Trp | Asp | Pro | Asp |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Gln | His | Cys | Arg | Asp | Val | Asn | Glu | Cys | Leu | Thr | Ile | Pro | Glu | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Cys | Lys | Gly | Glu | Met | Lys | Cys | Ile | Asn | His | Tyr | Gly | Gly | Tyr | Leu | Cys |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Leu | Pro | Arg | Ser | Ala | Ala | Val | Ile | Asn | Asp | Leu | His | Gly | Glu | Gly | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Pro | Pro | Pro | Val | Pro | Pro | Ala | Gln | His | Pro | Asn | Pro | Cys | Pro | Pro | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Tyr | Glu | Pro | Asp | Asp | Gln | Asp | Ser | Cys | Val | Asp | Val | Asp | Glu | Cys | Ala |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Gln | Ala | Leu | His | Asp | Cys | Arg | Pro | Ser | Gln | Asp | Cys | His | Asn | Leu | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Ser | Tyr | Gln | Cys | Thr | Cys | Pro | Asp | Gly | Tyr | Arg | Lys | Ile | Gly | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Glu | Cys | Val | Asp | Ile | Asp | Glu | Cys | Arg | Tyr | Arg | Tyr | Cys | Gln | His | Arg |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Cys | Val | Asn | Leu | Pro | Gly | Ser | Phe | Arg | Cys | Gln | Cys | Glu | Pro | Gly | Phe |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln | Leu | Gly | Pro | Asn | Asn | Arg | Ser | Cys | Val | Asp | Val | Asn | Glu | Cys | Asp |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |
| Met | Gly | Ala | Pro | Cys | Glu | Gln | Arg | Cys | Phe | Asn | Ser | Tyr | Gly | Thr | Phe |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Cys | Arg | Cys | His | Gln | Gly | Tyr | Glu | Leu | His | Arg | Asp | Gly | Phe | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Cys | Ser | Asp | Ile | Asp | Glu | Cys | Ser | Tyr | Ser | Ser | Tyr | Leu | Cys | Gln | Tyr |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Cys | Val | Asn | Glu | Pro | Gly | Arg | Phe | Ser | Cys | His | Cys | Pro | Gln | Gly |
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 Gly Gly Tyr Arg Cys Val Asp Thr Asn Arg Cys Val Glu Pro Tyr Ile  
 305 310 315 320  
 Gln Val Ser Glu Asn Arg Cys Leu Cys Pro Ala Ser Asn Pro Leu Cys  
 325 330 335  
 Arg Glu Gln Pro Ser Ser Ile Val His Arg Tyr Met Thr Ile Thr Ser  
 340 345 350  
 Glu Arg Ser Val Pro Ala Asp Val Phe Gln Ile Gln Ala Thr Ser Val  
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 Tyr Pro Gly Ala Tyr Asn Ala Phe Gln Ile Arg Ala Gly Asn Ser Gln  
 370 375 380  
 Gly Asp Phe Tyr Ile Arg Gln Ile Asn Asn Val Ser Ala Met Leu Val  
 385 390 395 400  
 Leu Ala Arg Pro Val Thr Gly Pro Arg Glu Tyr Val Leu Asp Leu Glu  
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| aagtgggaaa | taaatgaatg | ctgttgtttt  | ttcatgtcaa  | gattaccaaa | aagctctatg | 1200 |
| gaaagttatt | ttatagcaaa | cacaagggaa  | aggtattttc  | cagaatgagt | tttttacaaa | 1260 |
| tggatagtga | tgttttctgt | aatacttaag  | tttagaaaaca | tatatcacat | gacaagtcca | 1320 |
| ttgtttattc | aaaaaacaaa | taggcatttg  | actcatttgg  | gactgtaaaa | tcttcaaaaa | 1380 |
| tatgccagaa | aactaaaaaa | tgtagaaaag  | aggatttttt  | ttgttttggt | tttagccccc | 1440 |
| agaccaccac | tttttatagt | aacttatttt  | ctagtgtctc  | aaaaaataag | ggcttttaag | 1500 |
| gaaagagagt | atttctctta | aagttaattt  | tgatagatat  | ttatctagat | gctttctttt | 1560 |
| ttcccttgcc | ataatagctg | gcttgttagag | agagttaatgt | ttgaaaaggc | ttgccttttt | 1620 |
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| aaacaggcct  | ccgttctctg  | cagcgaagag  | cctcataaat  | tccccttcac  | aaggggcttt  | 180  |
| ttcatcctta  | ggagacctga  | gtcctcaaga  | aaaccctttt  | ctggaagtat  | ctgctccttc  | 240  |
| agaacatttt  | atagaaacca  | ctaataataa  | agacacaact  | gcaagaaatg  | ccttggaaga  | 300  |
| aaatgttttt  | atggaaaaca  | ctaacatgcc  | agaagtcacc  | atctctgaaa  | acacaaaacta | 360  |
| caatcatcct  | cctgaggcag  | attccgctgg  | gactgcattc  | aacttagggc  | caactgttaa  | 420  |
| acaaactgag  | acaaaatggg  | aatacaacaa  | cgtgggcact  | gacctgtccc  | ccgagcccaa  | 480  |
| aagcttcaat  | taccatttgc  | tcagtttgaa  | attcagctaa  | cccagcagct  | acagtccctt  | 540  |
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| atgaagcttc  | tcagtgggca  | gcaggaagta  | aaggcatctg  | agatagaatg  | ggatacggac  | 720  |
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| taggattggg  | tgtgtgtgtc  | tcctctctga  | atggcactca  | aatgtttgct  | gactcctact  | 960  |
| ctgcgtgact  | ggggtgtaca  | gctatggact  | gatgcacccc  | atcccatcat  | ctttcacgag  | 1020 |
| caaagcagtc  | tcttttttga  | cagctgaaga  | agaacctgta  | gggaatccag  | aaggagcatt  | 1080 |
| catgaagggtg | ttacaagccc  | ggaagaatta  | cacaagcact  | gagctgactg  | ttgagccgga  | 1140 |
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| ccaaggggagc | tggaaacagcc | tcacacacag  | caggggcctg  | agaagtttagc | gggaaacgcc  | 1560 |

-4180/13211-

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50 55 60  
Pro Ser Glu His Phe Ile Glu Thr Thr Asn Ile Lys Asp Thr Thr Ala  
65 70 75 80  
Arg Asn Ala Leu Glu Glu Asn Val Phe Met Glu Asn Thr Asn Met Pro  
85 90 95  
Glu Val Thr Ile Ser Glu Asn Thr Asn Tyr Asn His Pro Pro Glu Ala  
100 105 110  
Asp Ser Ala Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys Gln Thr  
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<212> DNA

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<222> (321).. (1370)

<400> 10698

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 <213> Homo sapiens

<400> 10699

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Arg | Leu | Leu | Gly | Lys | Ala | Leu | Ala | Ala | Val | Ser | Leu | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Ala | Leu | Ala | Ser | Val | Thr | Ile | Arg | Ser | Ser | Arg | Cys | Arg | Gly | Ile |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Ala | Phe | Arg | Asn | Ser | Phe | Ser | Ser | Ser | Trp | Phe | His | Leu | Asn | Thr |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Asn | Val | Met | Ser | Gly | Ser | Asn | Gly | Ser | Lys | Glu | Asn | Ser | His | Asn | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Arg | Thr | Ser | Pro | Tyr | Pro | Gly | Ser | Lys | Val | Glu | Arg | Ser | Gln | Val |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Pro | Asn | Glu | Lys | Val | Gly | Trp | Leu | Val | Glu | Trp | Gln | Asp | Tyr | Lys | Pro |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Val | Glu | Tyr | Thr | Ala | Val | Ser | Val | Leu | Ala | Gly | Pro | Arg | Trp | Ala | Asp |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Pro | Gln | Ile | Ser | Glu | Ser | Asn | Phe | Ser | Pro | Lys | Phe | Asn | Glu | Lys | Asp |

-4182/13211-

115 120 125  
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130 135 140  
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Leu Leu Gly Arg Trp Gly Pro Asn His Ala Ala Asp Pro Ile Ile Thr  
165 170 175  
Arg Trp Lys Arg Asp Ser Ser Gly Asn Lys Ile Met His Pro Val Ser  
180 185 190  
Gly Lys His Ile Leu Gln Phe Val Ala Ile Lys Arg Lys Asp Cys Gly  
195 200 205  
Glu Trp Ala Ile Pro Gly Gly Met Val Asp Pro Gly Glu Lys Ile Ser  
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Lys Thr Ser Ala Glu Lys Arg Glu Ile Glu Glu Lys Leu His Lys Leu  
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Phe Ser Gln Asp His Leu Val Ile Tyr Lys Gly Tyr Val Asp Asp Pro  
260 265 270  
Arg Asn Thr Asp Asn Ala Cys Met Glu Thr Glu Ala Val Asn Tyr His  
275 280 285  
Asp Glu Thr Gly Glu Ile Met Asp Asn Leu Met Leu Glu Ala Gly Asp  
290 295 300  
Asp Ala Gly Lys Val Lys Trp Val Asp Ile Asn Asp Lys Leu Lys Leu  
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aagaaaaatc agtagttaaa acctggttct gtgaatgcaa tcagcgattc ccaagtgaag 180  
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gaaaggatat tgatgattca ggggtcattc gtttacacat gagccggatt cacggagggg 300  
cacattttaa taactttctt ttctggtgtc ggacatgcaa aaaggagtta acaaggaaag 360  
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gtaaatggca atgccggatt tgtgaagata tgtttgattc ccaggaatat gtaaaacagc 600
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 35 40 45  
 Arg Phe Pro Ser Glu Asp Ala Val Glu Lys His Val Phe Ser Ala Asn  
 50 55 60  
 Thr Met Gly Tyr Lys Cys Val Val Cys Gly Lys Val Cys Asp Asp Ser  
 65 70 75 80  
 Gly Val Ile Arg Leu His Met Ser Arg Ile His Gly Gly Ala His Leu  
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Lys Leu Phe Pro Thr Ser  
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490

495

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<222> (884).. (1372)

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tgatagtcac cttgatttgt ttgaaatgat gtttacaaat gctattaaaa ttataaatcc 180  
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tatagcatca agttctagag gaattggggag ccattgcaaa totgaggggc aggaggaatc 360  
tttcgtccca cagagctcag tgcaaccacc agaaggagac agtgaaacaa aagctcctga 420  
agaatcatca gaggatgtga caaaatatca ggaaggagta totgcagaaa acccagttga 480  
gaaccatata aatataacac aatcagataa gttcacagcc aagccattgg attccaactc 540  
aggagaaaga aatgacctca atcttgatcg ctcttggtggg gttccagaag aatctgcttc 600  
atctgaaaaa gccaaaggaac cagaaacttc agatcagact agcactgaga gtgctaccaa 660  
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tttgaacatt agaaggccgc tagtaaaaat ggttttataaa ggccatcgca actccaggac 960  
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ccacattttc atctgggatc ggcacactgc tgagcatttg atgcttctgg aagctgataa 1080  
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agcctctttc atgttgagga tgttggtctc acttaatcat atccgagctg accggttgga 1320  
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<212> PRT

<213> Homo sapiens

<400> 10703

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20 25 30  
Phe Trp Gly Ala Asn Phe Val Met Ser Gly Ser Asp Cys Gly His Ile  
35 40 45  
Phe Ile Trp Asp Arg His Thr Ala Glu His Leu Met Leu Leu Glu Ala  
50 55 60  
Asp Asn His Val Val Asn Cys Leu Gln Pro His Pro Phe Asp Pro Thr  
65 70 75 80  
Ser Ser Gly Ile Asp Tyr Asp Ile Lys Ile Trp Ser Pro Leu Glu Glu  
85 90 95  
Ser Arg Ile Phe Asn Arg Lys Leu Ala Asp Glu Val Ile Thr Arg Asn  
100 105 110  
Glu Leu Met Leu Glu Glu Thr Arg Asn Thr Ile Thr Val Pro Ala Ser  
115 120 125  
Phe Met Leu Arg Met Leu Ala Ser Leu Asn His Ile Arg Ala Asp Arg  
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<210> 10704

<211> 1869

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (129)..(1682)

<400> 10704

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gtttgcaaat gttaattaat gcagattcat ctgaaaacta cattaagatg aagacctttg 360  
aaggttttctg tgctttgcat ctcgctgcaa gtcaaggaca ttggaaaatc gtacagattc 420  
ttttagaagc tggggcagat cctaattgcaa ctactttaga agaaacgaca ccattgtttt 480  
tagctgttga aaatggacag atagatgtgt taaggctgtt gottcaaacac ggagcaaattg 540  
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<210> 10706  
 <211> 2000  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (408).. (1013)

<400> 10706

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<213> Homo sapiens

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35 40 45  
Leu Ala Ala Leu Glu Asn Glu Gln Lys Gln Ile Asp Thr Arg Ala Ala  
50 55 60  
Leu Val Glu Lys Arg Leu Arg Tyr Leu Met Asp Thr Gly Arg Asn Thr  
65 70 75 80  
Glu Glu Glu Glu Ala Met Met Gln Glu Trp Phe Met Leu Val Asn Lys  
85 90 95  
Lys Asn Ala Leu Ile Arg Arg Met Asn Gln Leu Ser Leu Leu Glu Lys  
100 105 110  
Glu His Asp Leu Glu Arg Arg Tyr Glu Leu Leu Asn Arg Glu Leu Arg  
115 120 125  
Ala Met Leu Ala Ile Glu Asp Trp Gln Lys Thr Glu Ala Gln Lys Arg  
130 135 140  
Arg Glu Gln Leu Leu Leu Asp Glu Leu Val Ala Leu Val Asn Lys Arg  
145 150 155 160  
Asp Ala Leu Val Arg Asp Leu Asp Ala Gln Glu Lys Gln Ala Glu Glu  
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<212> DNA  
<213> Homo sapiens

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 <213> Homo sapiens

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 35 40 45  
 Gly Phe Ile Val Val Lys Lys Ile Glu Glu Ser Glu Thr Ile Glu Asp  
 50 55 60  
 Ser Ser Asn Gln Ala Ala Arg Glu Trp Glu Ile Thr Thr Arg Glu  
 65 70 75 80  
 Asp Ile Asn Ser Lys Gln Val Ala Thr Val Lys Ala Asp Leu Glu Ser  
 85 90 95  
 Glu Ser Phe Arg Pro Asn Leu Ser Asp Pro Ser Glu Leu Leu Leu Pro  
 100 105 110

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Asp Gln Ile Glu Lys Leu Thr Lys His Leu Pro Pro Arg Thr Ile Gly  
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Tyr Pro Trp Thr Leu Val Tyr Gly Thr Gly Lys His Gly Thr Ser Leu  
130 135 140  
Lys Thr Leu Tyr Arg Thr Met Thr Gly Leu Asp Thr Pro Val Leu Met  
145 150 155 160  
Val Ile Lys Asp Ser Asp Gly Gln Val Phe Gly Ala Leu Ala Ser Glu  
165 170 175  
Pro Leu Lys Val Ser Asp Gly Phe Tyr Gly Thr Gly Glu Thr Phe Val  
180 185 190  
Phe Thr Phe Cys Pro Glu Phe Glu Val Phe Lys Trp Thr Gly Asp Asp  
195 200 205  
Met Phe Phe Ile Lys Gly Asp Met Asp Ser Leu Ala Phe Gly Gly Gly  
210 215 220  
Gly Gly Glu Phe Ala Leu Trp Leu Asp Gly Asp Leu Tyr His Gly Arg  
225 230 235 240  
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<212> DNA  
<213> Homo sapiens

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<212> PRT  
<213> Homo sapiens

<400> 10714

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Glu | Arg | Glu | His | Glu | Lys | Ser | Leu | Ser | Glu | Ile | Arg | Gln | Leu | Lys |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Arg | Glu | Leu | Glu | Asn | Val | Lys | Ala | Lys | Leu | Ala | Gln | His | Val | Lys | Pro |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Glu | Glu | His | Glu | Gln | Val | Lys | Ser | Arg | Leu | Glu | Gln | Lys | Ser | Gly | Glu |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Leu | Gly | Lys | Lys | Ile | Thr | Glu | Leu | Thr | Leu | Lys | Asn | Gln | Thr | Leu | Gln |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Lys | Glu | Ile | Glu | Lys | Val | Tyr | Leu | Asp | Asn | Lys | Leu | Leu | Lys | Glu | Gln |  |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |  |
| Ala | His | Asn | Leu | Thr | Ile | Glu | Met | Lys | Asn | His | Tyr | Val | Pro | Leu | Lys |  |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Val | Ser | Glu | Asp | Met | Lys | Lys | Ser | His | Asp | Ala | Ile | Ile | Asp | Asp | Leu |  |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |  |
| Asn | Arg | Lys | Leu | Leu | Asp | Val | Thr | Gln | Lys | Tyr | Thr | Glu | Lys | Lys | Leu |  |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |  |
| Glu | Met | Glu | Lys | Leu | Leu | Leu | Glu | Asn | Asp | Ser | Leu | Ser | Lys | Asp | Val |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Ser | Arg | Leu | Glu | Thr | Val | Phe | Val | Pro | Pro | Glu | Lys | His | Glu | Lys | Glu |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Ile | Ile | Ala | Leu | Lys | Ser | Asn | Ile | Val | Glu | Leu | Lys | Lys | Gln | Leu | Ser |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Glu | Leu | Lys | Lys | Lys | Cys | Gly | Glu | Asp | Gln | Glu | Lys | Ile | His | Ala | Leu |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Thr | Ser | Glu | Asn | Thr | Asn | Leu | Lys | Lys | Met | Met | Ser | Asn | Gln | Tyr | Val |  |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |
| Pro | Val | Lys | Thr | His | Glu | Glu | Val | Lys | Met | Thr | Leu | Asn | Asp | Thr | Leu |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Ala | Lys | Thr | Asn | Arg | Glu | Leu | Leu | Asp | Val | Lys | Lys | Lys | Phe | Glu | Asp |  |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |  |
| Ile | Asn | Gln | Glu | Phe | Val | Lys | Ile | Lys | Asp | Lys | Asn | Glu | Ile | Leu | Lys |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |
| Arg | Asn | Leu | Glu | Asn | Thr | Gln | Asn | Gln | Ile | Lys | Ala | Glu | Tyr | Ile | Ser |  |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |  |
| Leu | Ala | Glu | His | Glu | Ala | Lys | Met | Ser | Ser | Leu | Ser | Gln | Ser | Met | Arg |  |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 275 |     | 280 |     | 285 |     |     |     |     |     |     |     |     |     |     |
| Lys | Val | Gln | Asp | Ser | Asn | Ala | Glu | Ile | Leu | Ala | Asn | Tyr | Arg | Lys | Gly |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Gln | Glu | Glu | Ile | Val | Thr | Leu | His | Ala | Glu | Ile | Lys | Ala | Gln | Lys | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Glu | Leu | Asp | Thr | Ile | Gln | Glu | Cys | Ile | Lys | Val | Lys | Tyr | Ala | Pro | Ile |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Val | Ser | Phe | Glu | Glu | Cys | Glu | Arg | Lys | Phe | Lys | Ala | Thr | Glu | Lys | Glu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Leu | Lys | Asp | Gln | Leu | Ser | Glu | Gln | Thr | Gln | Lys | Tyr | Ser | Val | Ser | Glu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Glu | Glu | Val | Lys | Lys | Asn | Lys | Gln | Glu | Asn | Asp | Lys | Leu | Lys | Lys | Glu |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ile | Phe | Thr | Leu | Gln | Lys | Asp | Leu | Arg | Asp | Lys | Thr | Val | Leu | Ile | Glu |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Lys | Ser | His | Glu | Met | Glu | Arg | Ala | Leu | Ser | Arg | Lys | Thr | Asp | Glu | Leu |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Asn | Lys | Gln | Leu | Lys | Asp | Leu | Ser | Gln | Lys | Tyr | Thr | Glu | Val | Lys | Asn |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Val | Lys | Glu | Lys | Leu | Val | Glu | Glu | Asn | Ala | Lys | Gln | Thr | Ser | Glu | Ile |
|     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     |
| Leu | Ala | Val | Gln | Asn | Leu | Leu | Gln | Lys | Gln | His | Val | Pro | Leu | Glu | Gln |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Val | Glu | Ala | Leu | Lys | Lys | Ser | Leu | Asn | Gly | Thr | Ile | Glu | Asn | Leu | Lys |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Glu | Glu | Leu | Lys | Ser | Met | Gln | Arg | Cys | Tyr | Glu | Lys | Glu | Gln | Gln | Thr |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Val | Thr | Lys | Leu | His | Gln | Leu | Leu | Glu | Asn | Gln | Lys | Asn | Ser | Ser | Val |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Pro | Leu | Ala | Glu | His | Leu | Gln | Ile | Lys | Glu | Ala | Phe | Glu | Lys | Glu | Val |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Gly | Ile | Ile | Lys | Ala | Ser | Leu |     |     |     |     |     |     |     |     |     |
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 35 40 45  
 Gly Thr Arg Val Tyr Phe Phe Thr Gln Glu Glu Leu Asp Thr Leu Phe  
 50 55 60  
 Thr Thr Ala Gly Leu Glu Lys Val Gln Asn Leu Val Asp Arg Arg Leu  
 65 70 75 80  
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105

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<400> 10718

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<213> Homo sapiens

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| Met | Ala | Ala | Ala | Ala | Ala | Arg | Val | Val | Leu | Ser | Ser | Ala | Ala | Arg | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Leu | Trp | Gly | Phe | Ser | Glu | Ser | Leu | Leu | Ile | Arg | Gly | Ala | Ala | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Ser | Leu | Tyr | Phe | Gly | Glu | Asn | Arg | Leu | Arg | Ser | Thr | Gln | Ala | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Gln | Val | Val | Leu | Asn | Val | Pro | Glu | Thr | Arg | Val | Thr | Cys | Leu | Glu |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Ser | Gly | Leu | Arg | Val | Ala | Ser | Glu | Asp | Ser | Gly | Leu | Ser | Thr | Cys | Thr |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Val | Gly | Leu | Trp | Ile | Asp | Ala | Gly | Ser | Arg | Tyr | Glu | Asn | Glu | Lys | Asn |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Asn | Gly | Thr | Ala | His | Phe | Leu | Glu | His | Met | Ala | Phe | Lys | Gly | Thr | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Arg | Ser | Gln | Leu | Asp | Leu | Glu | Leu | Glu | Ile | Glu | Asn | Met | Gly | Ala |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| His | Leu | Asn | Ala | Tyr | Thr | Ser | Arg | Glu | Gln | Thr | Val | Tyr | Tyr | Ala | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Phe | Ser | Lys | Asp | Leu | Pro | Arg | Ala | Val | Glu | Ile | Leu | Ala | Asp | Ile |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |
| Ile | Gln | Asn | Ser | Thr | Leu | Gly | Glu | Ala | Glu | Ile | Glu | Arg | Glu | Arg | Gly |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Ile | Leu | Arg | Glu | Met | Gln | Glu | Val | Glu | Thr | Asn | Leu | Gln | Glu | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Phe | Asp | Tyr | Leu | His | Ala | Thr | Ala | Tyr | Gln | Asn | Thr | Ala | Leu | Gly |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Arg | Thr | Ile | Leu | Gly | Pro | Thr | Glu | Asn | Ile | Lys | Ser | Ile | Ser | Arg | Lys |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asp | Leu | Val | Asp | Tyr | Ile | Thr | Thr | His | Tyr | Lys | Gly | Pro | Arg | Ile | Val |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |     |
| Leu | Ala | Ala | Ala | Gly | Gly | Val | Ser | His | Asp | Glu | Leu | Leu | Asp | Leu | Ala |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Lys | Phe | His | Phe | Gly | Asp | Ser | Leu | Cys | Thr | His | Lys | Gly | Glu | Ile | Pro |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Leu | Pro | Pro | Cys | Lys | Phe | Thr | Gly | Ser | Glu | Ile | Arg | Met | Arg | Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Asp | Lys | Met | Pro | Leu | Ala | His | Leu | Ala | Ile | Ala | Val | Glu | Ala | Val | Gly |
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Asp Tyr Lys Gln Gly His Trp Asn Gln Leu Leu Gly Trp His His Phe
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Thr Met Tyr Phe Phe Phe Gly Leu Leu Gly Val Ala Asp Ile Leu Cys
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Arg Glu Met Leu Asp Ile Phe Val His Gln Leu Leu Val Leu Val Val
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| Met | Ala | Asp | Leu | Val | Pro | Asp | Leu | Gln | Pro | Ile | Leu | Phe | Trp | Met | Ser |
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| Asn | Ser | Ile | Glu | Leu | Leu | Tyr | Phe | Ile | Gln | Gln | Lys | Cys | Pro | Leu | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Met | Gln | Ser | Met | Glu | Glu | Gln | Leu | Asp | Ile | Thr | Gly | Ser | Lys | Glu | Ser |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Phe | Ser | Cys | Thr | Leu | Thr | Ala | Ser | Glu | Glu | Ala | Met | Ala | Val | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Glu | Val | Val | Leu | Tyr | Ala | Phe | Gln | Gln | Cys | Val | Tyr | Tyr | Val | Ser |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Lys | Ser | Leu | Tyr | Ile | Cys | Leu | Pro | Ala | Leu | Leu | Glu | Cys | Pro | Pro | Phe |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gln | Thr | Glu | Arg | Arg | Glu | Ser | Trp | Ser | Ser | Ala | Pro | Glu | Leu | Pro | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Leu | Arg | Arg | Val | Val | Ser | Val | Tyr | Gln | Ala | Ala | Leu | Asp | Leu | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Gln | Leu | Gln | Val | His | Pro | Glu | Val | Ala | Ser | Gln | Met | Leu | Ala | Tyr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
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 <213> Homo sapiens

<400> 10729

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Lys | Ala | Val | Ile | Leu | Ile | Gly | Gly | Pro | Gln | Lys | Gly | Thr | Arg |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Phe | Arg | Pro | Leu | Ser | Phe | Glu | Val | Pro | Lys | Pro | Leu | Phe | Pro | Val | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Val | Pro | Met | Ile | Gln | His | His | Ile | Glu | Ala | Cys | Ala | Gln | Val | Pro |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Met | Gln | Glu | Ile | Leu | Leu | Ile | Gly | Phe | Tyr | Gln | Pro | Asp | Glu | Pro |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Thr | Gln | Phe | Leu | Glu | Ala | Ala | Gln | Gln | Glu | Phe | Asn | Leu | Pro | Val |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Arg | Tyr | Leu | Gln | Glu | Phe | Ala | Pro | Leu | Gly | Thr | Gly | Gly | Gly | Leu | Tyr |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Phe | Arg | Asp | Gln | Ile | Leu | Ala | Gly | Ser | Pro | Glu | Ala | Phe | Phe | Val |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Asn | Ala | Asp | Val | Tyr | Ser | Asp | Phe | Pro | Leu | Ser | Ala | Met | Leu | Glu |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | His | Arg | Arg | Gln | Arg | His | Pro | Phe | Leu | Leu | Leu | Gly | Thr | Thr | Ala |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asn | Arg | Thr | Gln | Ser | Leu | Asn | Tyr | Gly | Cys | Ile | Val | Glu | Asn | Pro | Gln |

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-4210/13211-

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165 170 175  
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195 200 205  
Asp Ser Pro Gly Leu Trp Pro Gly Ala Gly Thr Ile Arg Leu Glu Gln  
210 215 220  
Asp Val Phe Ser Ala Leu Ala Gly Gln Gly Gln Ile Tyr Val His Leu  
225 230 235 240  
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Ala Ser Arg Leu Tyr Leu Ser Arg Tyr Gln Asp Thr His Pro Glu Arg  
260 265 270  
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Ile His Pro Thr Ala Lys Val Ala Pro Ser Ala Val Leu Gly Pro Asn  
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325 330 335  
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<213> Homo sapiens

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<222> (225)..(1121)

<400> 10730

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&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 10731

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          35           40           45
Ser Asn Tyr His Ala Ser Asn Asn Gln His Gly Ala Asp Ser Glu Asn
          50           55           60
Gly Asp Met Asn Ser Ser Val Gly Leu Glu Leu Pro Phe Met Met Met
          65           70           75           80
Pro His Pro Leu Ile Pro Val Ser Leu Pro Pro Ala Ser Val Thr Met
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-4212/13211-

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ala | Gln | Val | Gln | Ser | Pro | Pro | Ser | Arg | Val | Glu | Thr | Ser | Val | Ile |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Glu | Arg | Val | Pro | Asp | Ser | Pro | Ser | Pro | Ala | Pro | Ser | Leu | Glu | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Arg | Arg | Pro | Gly | Ser | His | Pro | Ser | Ser | His | Arg | Ser | Ser | Ser | Val |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ser | Ser | Ser | Pro | Ala | Arg | Thr | Glu | Ser | Ser | Ser | Asp | Arg | Ile | Pro | Val |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| His | Gln | Asn | Gly | Leu | Ser | Met | Asn | Gln | Met | Leu | Met | Gly | Leu | Ser | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asn | Val | Leu | Pro | Gly | Pro | Lys | Glu | Gly | Asp | Leu | Ala | Gly | His | Asp | Met |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | His | Glu | Ser | Lys | Arg | Val | His | Ile | Glu | Lys | Asp | Glu | Thr | Pro | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | Thr | Pro | Thr | Ala | Arg | Asp | Ser | Leu | Asp | Lys | Leu | Ser | Leu | Thr | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| His | Gly | Gln | Pro | Leu | Pro | Pro | Gly | Phe | Pro | Ser | Pro | Phe | Leu | Phe | Pro |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asp | Gly | Leu | Ser | Ser | Ile | Glu | Thr | Leu | Leu | Thr | Asn | Ile | Gln | Gly | Leu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Lys | Val | Ala | Ile | Asp | Asn | Ala | Arg | Ala | Gln | Glu | Lys | Gln | Val | Gln |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Glu | Lys | Thr | Glu | Leu | Lys | Met | Asp | Phe | Phe |     |     |     |     |     |
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09629469.072800

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| Met | Glu | Ile | Asp | Gln | Gly | Glu | Lys | Asn | Glu | Asp | Glu | Thr | Ser | Ala | Asp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Val | Glu | Thr | Ile | Asn | Glu | Asn | Val | Ile | Glu | Asp | Asn | Lys | Ser | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Ile | Leu | Glu | Asn | Thr | Asp | Ser | Met | Glu | Thr | Asp | Glu | Ile | Ile | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Leu | Glu | Lys | Leu | Ala | Pro | Ser | Glu | Asp | Glu | Leu | Thr | Cys | Phe | Ser |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Lys | Thr | Ser | Leu | Leu | Pro | Ile | Asp | Glu | Thr | Asn | Pro | Asp | Leu | Glu | Glu |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Lys | Met | Glu | Ser | Ser | Phe | Gly | Ser | Pro | Ser | Lys | Gln | Glu | Ser | Ser | Glu |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Leu | Pro | Lys | Glu | Ala | Phe | Leu | Val | Leu | Ser | Asp | Glu | Glu | Asp | Ile |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Gly | Glu | Lys | Asp | Glu | Ser | Glu | Val | Ile | Ser | Gln | Asn | Glu | Thr | Cys |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Pro | Gly |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Met | Gln | Ala | Leu | Arg | His | Val | Val | Cys | Ala | Leu | Ser | Gly | Gly | Val | Asp |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ser | Ala | Val | Ala | Ala | Leu | Leu | Leu | Arg | Arg | Gly | Tyr | Gln | Val | Thr |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |

-4215/13211-

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Asp Ile Pro Phe His Gln Val Ser Tyr Val Lys Glu Tyr Trp Asn Asp  
65 70 75 80  
Val Phe Ser Asp Phe Leu Asn Glu Tyr Glu Lys Gly Arg Thr Pro Asn  
85 90 95  
Pro Asp Ile Val Cys Asn Lys His Ile Lys Phe Ser Cys Phe Phe His  
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Tyr Ala Val Asp Asn Leu Gly Ala Asp Ala Ile Ala Thr Gly His Tyr  
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Ala Arg Thr Ser Leu Glu Asp Glu Glu Val Leu Glu Gln Lys His Val  
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| Phe | Ser | Asp | Trp | Gly | Arg | Leu | Glu | Ala | Ala | Ile | Leu | Ser | Gly | Trp | Lys |
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| Thr | Phe | Trp | Gln | Ser | Val | Ser | Lys | Glu | Arg | Val | Ala | Arg | Thr | Thr | Ser |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
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|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
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|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Gly | Thr | Ser | Pro | Gly | Ala | Pro | Arg | Gly | Leu | Gly | Asn | Ser | Arg | Ala | Pro |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ala | Trp | Val | Trp | Leu | Arg | Pro | Cys | Ser | His | Ser | Trp | Gln | Cys | Ser | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Glu | Ala | Thr | Val | Asp | Gln | Lys | Arg | Leu | Gly | Val | Asp | Pro | Gly | Ala |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Pro | Gln | Gly | Ala | Arg | Thr | Ser | Gln | Gly | Ser | Thr | Phe | Met | Gly | Pro | Leu |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Thr | Leu | Pro | Ile | Ala | Leu | Arg | Phe | Ser | Thr | Arg | Gln | Asn | Arg | His |
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| Met | Pro | Lys | Lys | Ala | Lys | Pro | Thr | Gly | Ser | Gly | Lys | Glu | Glu | Gly | Pro |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ala | Pro | Cys | Lys | Gln | Met | Lys | Leu | Glu | Ala | Ala | Gly | Gly | Pro | Ser | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Asn | Phe | Asp | Ser | Pro | Ser | Ser | Leu | Phe | Glu | Ser | Leu | Ile | Ser | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Lys | Thr | Glu | Thr | Phe | Phe | Lys | Glu | Phe | Trp | Glu | Gln | Lys | Pro | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ile | Gln | Arg | Asp | Asp | Pro | Ala | Leu | Ala | Thr | Tyr | Tyr | Gly | Ser | Leu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Phe | Lys | Leu | Thr | Asp | Leu | Lys | Ser | Leu | Cys | Ser | Arg | Gly | Met | Tyr | Tyr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Arg | Asp | Val | Asn | Val | Cys | Arg | Cys | Val | Asn | Gly | Lys | Lys | Lys | Val |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Asn | Lys | Asp | Gly | Lys | Ala | His | Phe | Leu | Gln | Leu | Arg | Lys | Asp | Phe |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asp | Gln | Lys | Arg | Ala | Thr | Ile | Gln | Phe | His | Gln | Pro | Gln | Arg | Phe | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Glu | Leu | Trp | Arg | Ile | Gln | Glu | Lys | Leu | Glu | Cys | Tyr | Phe | Ser | Ser |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Pro | His | Tyr | Asp | Asp | Val | Glu | Val | Phe | Ile | Leu | Gln | Leu | Glu | Gly |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Glu | Lys | His | Trp | Arg | Leu | Tyr | His | Pro | Thr | Val | Pro | Leu | Ala | Arg | Glu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Tyr | Ser | Val | Glu | Ala | Glu | Glu | Arg | Ile | Gly | Arg | Pro | Val | His | Glu | Phe |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Met | Leu | Lys | Pro | Gly | Asp | Leu | Leu | Tyr | Phe | Pro | Arg | Gly | Thr | Ile | His |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | Ala | Asp | Thr | Pro | Ala | Gly | Leu | Ala | His | Ser | Thr | His | Val | Thr | Ile |
|     |     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 |     |
| Ser | Thr | Tyr | Gln | Asn | Asn | Ser | Trp | Gly | Asp | Phe | Leu | Leu | Asp | Thr | Ile |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Gly | Leu | Val | Phe | Asp | Thr | Ala | Lys | Glu | Asp | Val | Glu | Leu | Arg | Thr |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gly | Ile | Pro | Arg | Gln | Leu | Leu | Leu | Val | Glu | Ser | Thr | Thr | Val | Ala | Thr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Arg | Arg | Leu | Ser | Gly | Phe | Leu | Arg | Thr | Leu | Ala | Asp | Arg | Leu | Glu | Gly |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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| Arg | Leu | Pro | Pro | Tyr | Ser | Ala | Gly | Asp | Gly | Ala | Glu | Leu | Ser | Thr | Pro |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Gly | Gly | Lys | Leu | Pro | Arg | Leu | Asp | Ser | Val | Val | Arg | Leu | Gln | Phe | Lys |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
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| 370 |     | 375 |     | 380 |     |     |     |     |     |     |     |     |     |     |     |
| Thr | Gln | Glu | Lys | Met | Val | Tyr | Ile | Tyr | His | Ser | Leu | Lys | Asn | Ser | Arg |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Arg | Phe | Pro | Leu | Ser | His | Leu | Asp | Ala | Leu | Lys | Gln | Ile | Trp | Asn | Ser |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Pro | Ala | Ile | Ser | Val | Lys | Asp | Leu | Lys | Leu | Thr | Thr | Asp | Glu | Glu | Lys |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Glu | Ser | Leu | Val | Leu | Ser | Leu | Trp | Thr | Glu | Cys | Leu | Ile | Gln | Val | Val |
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 <213> Homo sapiens

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<210> 10745  
 <211> 304  
 <212> PRT  
 <213> Homo sapiens

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<400> 10745
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          35             40             45
Arg Pro Gly Ala Leu Glu Ala Asp Gly Ser Gln Gly Lys Lys Leu Leu
          50             55             60
Asn Leu Cys Ser Pro Leu Pro Cys Met Ile Pro Leu Gln Pro Leu Gly
          65             70             75             80
Tyr Glu Val Pro Ser Lys Thr Leu Leu Ser Tyr Ser Glu Leu Trp Lys
          85             90             95
Ser Ser Leu Arg Ala Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
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09629469.072800

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gly | Gly | Gly | Gly | Ala | Pro | Val | Cys | Gly | Ala | Ser | Gly | Leu | Cys | Lys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Asn | Cys | Gly | Val | Cys | Cys | Lys | Ala | Glu | Leu | Gly | Leu | Ala | Pro | Ser |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Leu | Pro | Ala | Gly | Arg | Val | Ile | Lys | Pro | Gln | Val | Ile | Asn | Gln | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Gly | Leu | Pro | Ala | Ser | Gly | Ser | Leu | Tyr | Tyr | Phe | Asn | Tyr | Leu | Asp |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Thr | Ala | Tyr | Pro | Pro | Ser | Glu | Leu | Leu | Ser | Gly | His | Leu | Phe | Pro |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Ser | Gly | Leu | Leu | Asn | Ala | Gln | Ala | Pro | Ala | Ala | Leu | Ala | Ala | His | Pro |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Leu | Phe | Leu | Leu | Glu | Asn | Ala | Lys | Leu | Ala | Gly | Leu | Ala | Ala | Asp |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | Phe | Pro | His | Pro | Ala | Pro | Tyr | Pro | His | Lys | Glu | Arg | Leu | Pro | Ala |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Leu | Glu | Gln | Val | Leu | Lys | Glu | Asn | Ser | Ala | Leu | Thr | Ala | Glu | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gly | Gly | Val | Lys | Gly | His | Ser | Lys | Leu | Pro | Gly | Gly | Ser | Ala | Asp | Gly |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Lys | Pro | Lys | Asn | Phe | Thr | Cys | Glu | Val | Cys | Gly | Lys | Val | Phe | Asn | Ala |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| His | Tyr | Asn | Leu | Thr | Arg | His | Leu | Arg | Gln | Arg | Val | Leu | Gln | Lys | Leu |
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<210> 10746  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (143).. (1546)

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<210> 10747  
 <211> 468  
 <212> PRT  
 <213> Homo sapiens

<400> 10747  
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 Val Asp Val Val Leu Asp Cys Phe Leu Ala Lys Asp Gly Ala His Arg  
 35 40 45  
 Gly Ala Leu Ala Ser Ser Glu Asp Arg Ala Arg Ala Ser Leu Val Leu  
 50 55 60  
 Lys Gln Val Pro Val Leu Asp Asp Gly Ser Leu Glu Asp Phe Thr Asp  
 65 70 75 80  
 Phe Gln Gly Gly Thr Leu Ala Gln Asp Asp Pro Pro Ile Ile Phe Glu  
 85 90 95  
 Ala Ser Val Asp Leu Val Gln Ile Pro Gln Ala Glu Ala Leu Leu His  
 100 105 110  
 Ala Asp Cys Ser Gly Lys Glu Val Thr Cys Glu Ile Ser Arg Tyr Phe  
 115 120 125  
 Leu Gln Met Thr Glu Thr Thr Val Lys Thr Ala Ala Trp Phe Met Ala  
 130 135 140  
 Asn Val Gln Val Ser Gly Arg Gly Pro Ser Ile Ser Leu Val Met Lys  
 145 150 155 160  
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09629459.072800





<400> 10748

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<211> 344

<212> PRT

<213> Homo sapiens

<400> 10749

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Ser Pro Tyr Leu Arg Gly Gln Ser Lys Leu Ile Phe Lys Pro Asp Leu  
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Thr Leu Glu Glu Val Gln Ala Glu Asn Pro Lys Val Ser Arg Gly Arg  
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Tyr Arg Pro Gln Glu Cys Lys Ala Leu Gln Arg Val Ala Ile Leu Val  
115 120 125  
Pro His Arg Asn Arg Glu Lys His Leu Met Tyr Leu Leu Glu His Leu  
130 135 140  
His Pro Phe Leu Gln Arg Gln Gln Leu Asp Tyr Gly Ile Tyr Val Ile  
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His Gln Ala Glu Gly Lys Lys Phe Asn Arg Ala Lys Leu Leu Asn Val  
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Gly Tyr Leu Glu Ala Leu Lys Glu Glu Asn Trp Asp Cys Phe Ile Phe  
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His Asp Val Asp Leu Val Pro Glu Asn Asp Phe Asn Leu Tyr Lys Cys  
195 200 205  
Glu Glu His Pro Lys His Leu Val Val Gly Arg Asn Ser Thr Gly Tyr  
210 215 220  
Arg Leu Arg Tyr Ser Gly Tyr Phe Gly Gly Val Thr Ala Leu Ser Arg  
225 230 235 240  
Glu Gln Phe Phe Lys Val Asn Gly Phe Ser Asn Asn Tyr Trp Gly Trp  
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Gly Gly Glu Asp Asp Asp Leu Arg Leu Arg Val Glu Leu Gln Arg Met  
260 265 270  
Lys Ile Ser Arg Pro Leu Pro Glu Val Gly Lys Tyr Thr Met Val Phe  
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His Thr Arg Asp Lys Gly Asn Glu Val Asn Ala Glu Arg Met Lys Leu  
290 295 300  
Leu His Gln Val Ser Arg Val Trp Arg Thr Asp Gly Leu Ser Ser Cys  
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<210> 10750

<211> 1723

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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (242).. (865)

<400> 10750

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<210> 10751  
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<212> PRT  
<213> Homo sapiens

<400> 10751

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| His Asn Leu Lys His Arg Tyr Glu Leu Gln Glu Thr Leu Gly Lys Gly |     |     |
| 50  | 55  | 60  |
| Thr Tyr Gly Lys Val Lys Arg Ala Thr Glu Arg Phe Ser Gly Arg Val |     |     |
| 65  | 70  | 75  |
| Val Ala Ile Lys Ser Val Arg Lys Asp Lys Ile Lys Asp Glu Gln Asp |     |     |
| 85  | 90  | 95  |
| Met Val His Ile Arg Arg Glu Ile Glu Ile Met Ser Ser Leu Asn His |     |     |
| 100   | 105 | 110 |
| Pro His Ile Ile Ser Ile Tyr Glu Val Phe Glu Asn Lys Asp Lys Ile |     |     |
| 115   | 120 | 125 |
| Val Ile Ile Met Glu Tyr Ala Ser Lys Gly Glu Leu Tyr Asp Tyr Ile |     |     |
| 130   | 135 | 140 |
| Ser Glu Arg Arg Arg Leu Ser Glu Arg Glu Thr Arg His Phe Phe Arg |     |     |
| 145   | 150 | 155 |
| Gln Ile Val Ser Ala Val His Tyr Cys His Lys Asn Gly Val Val His |     |     |
| 165   | 170 | 175 |
| Arg Asp Leu Lys Leu Lys Lys Thr Ser Arg Glu Asn Gln Val Thr Thr |     |     |
| 180   | 185 | 190 |
| Leu Pro Gln Ser Ala Val Ser Leu Arg Ser Cys Trp Thr Val Met Met |     |     |
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<210> 10752  
 <211> 1721  
 <212> DNA  
 <213> Homo sapiens

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| ttgtagagaa | tgagggtctt | tttatgttgt | ccaggctgggt | ctcaaactcc  | tagcctcaaa  | 1800 |
| tgatccttcc | acttcagcct | cccaaagtgt | tgggcttaca  | ggcatgagtc  | actgagtcta  | 1860 |
| gccaccagc  | cttttcttag | tgccttagag | ggcactaatc  | ccattcctga  | tggttccatc  | 1920 |
| ctcatgacct | aattacctcc | ccaaagcccc | acctccta    | accaaaccct  | tgaaggtaag  | 1980 |
| gatttcaaca | taggaatttt | ggagggaaga | caaacattca  | gaccacagca  | gccactgagt  | 2040 |
| cacatgaggc | aagggcaaaa | gagccaaatg | aaacagaggc  | tctggctcga  | aggaagcgga  | 2100 |
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<400> 10754

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| ggtttggaag | atgggggtgcc | taggtcccgt | ggcgaaggga  | ccgggggaagt | ggtcttggag | 180  |
| cgggggcccc | gcgcggccta  | ccacatgttc | gtgggtgatgg | aggacttgg   | ggagaagctg | 240  |
| aagctgctcc | gctacgagga  | ggagtccctc | cggaagagca  | acctgaaggc  | cccgtccaga | 300  |
| cactattttg | cactgcctac  | caaccctggc | gaacagttct  | acatgttttg  | tactcttgct | 360  |
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| aatgcaacaa | tatctaaca   | actatccgag | cttcgggtcat | ttggaagaac  | tgcagatttt | 480  |
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| gctgaagaag | cattgaaata  | tattggtttc | acctggaaaa  | ggccaatata  | cccagtagaa | 600  |
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| aaggcccaga | catatcactt  | ggatatgaac | gagactgcca  | aacaagaaga  | tattttggaa | 780  |
| tccacaacag | atgctgcaga  | atggagccta | gaagtggaa   | gtgtactacc  | gcaactgaaa | 840  |
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| attagaattg | gcattgtgga  | acacacacta | ctccaatcaa  | agctgaagga  | gaagtccaac | 1320 |
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<211> 429

<212> PRT

<213> Homo sapiens

<400> 10755

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| Met | Thr | Ala | Ala | Leu | Ala | Val | Val | Thr | Thr | Ser | Gly | Leu | Glu | Asp | Gly |  |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |  |
| Val | Pro | Arg | Ser | Arg | Gly | Glu | Gly | Thr | Gly | Glu | Val | Val | Leu | Glu | Arg |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Gly | Pro | Gly | Ala | Ala | Tyr | His | Met | Phe | Val | Val | Met | Glu | Asp | Leu | Val |  |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Glu | Lys | Leu | Lys | Leu | Leu | Arg | Tyr | Glu | Glu | Glu | Phe | Leu | Arg | Lys | Ser |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Asn | Leu | Lys | Ala | Pro | Ser | Arg | His | Tyr | Phe | Ala | Leu | Pro | Thr | Asn | Pro |  |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |  |
| Gly | Glu | Gln | Phe | Tyr | Met | Phe | Cys | Thr | Leu | Ala | Ala | Trp | Leu | Ile | Asn |  |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |  |
| Lys | Ala | Gly | Arg | Pro | Phe | Glu | Gln | Pro | Gln | Glu | Tyr | Asp | Asp | Pro | Asn |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Ala | Thr | Ile | Ser | Asn | Ile | Leu | Ser | Glu | Leu | Arg | Ser | Phe | Gly | Arg | Thr |  |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |  |
| Ala | Asp | Phe | Pro | Pro | Ser | Lys | Leu | Lys | Ser | Gly | Tyr | Gly | Glu | His | Val |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Cys | Tyr | Val | Leu | Asp | Cys | Phe | Ala | Glu | Glu | Ala | Leu | Lys | Tyr | Ile | Gly |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Phe | Thr | Trp | Lys | Arg | Pro | Ile | Tyr | Pro | Val | Glu | Glu | Leu | Glu | Glu | Glu |  |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |  |
| Ser | Val | Ala | Glu | Asp | Asp | Ala | Glu | Leu | Thr | Leu | Asn | Lys | Val | Asp | Glu |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Glu | Phe | Val | Glu | Glu | Glu | Thr | Asp | Asn | Glu | Glu | Asn | Phe | Ile | Asp | Leu |  |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |
| Asn | Val | Leu | Lys | Ala | Gln | Thr | Tyr | His | Leu | Asp | Met | Asn | Glu | Thr | Ala |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Lys | Gln | Glu | Asp | Ile | Leu | Glu | Ser | Thr | Thr | Asp | Ala | Ala | Glu | Trp | Ser |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Leu | Glu | Val | Glu | Arg | Val | Leu | Pro | Gln | Leu | Lys | Val | Thr | Ile | Arg | Thr |  |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |  |
| Asp | Asn | Lys | Asp | Trp | Arg | Ile | His | Val | Asp | Gln | Met | His | Gln | His | Arg |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |
| Ser | Gly | Ile | Glu | Ser | Ala | Leu | Lys | Glu | Thr | Lys | Gly | Phe | Leu | Asp | Lys |  |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |
| Leu | His | Asn | Glu | Ile | Thr | Arg | Thr | Leu | Glu | Lys | Ile | Ser | Ser | Arg | Glu |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |

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Lys Tyr Ile Asn Asn Gln Leu Glu Asn Leu Val Gln Glu Tyr Arg Ala  
 305 310 315 320  
 Ala Gln Ala Gln Leu Ser Glu Ala Lys Glu Arg Tyr Gln Gln Gly Asn  
 325 330 335  
 Gly Gly Val Thr Glu Arg Thr Arg Leu Leu Ser Glu Val Met Glu Glu  
 340 345 350  
 Leu Glu Lys Val Lys Gln Glu Met Glu Glu Lys Gly Ser Ser Met Thr  
 355 360 365  
 Asp Gly Ala Pro Leu Val Lys Ile Lys Gln Ser Leu Thr Lys Leu Lys  
 370 375 380  
 Gln Glu Thr Val Glu Met Asp Ile Arg Ile Gly Ile Val Glu His Thr  
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<211> 1420

<212> DNA

<213> Homo sapiens

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<400> 10757

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| gcttcagaag  | gaaggtggtg | gacattcttt | ccatcatgac | acaaaccaac | aattacatac  | 180  |
| caggctttgt  | tggtgagaaa | gcaaggtggc | ccacctggag | atttatgccg | aaacaaccac  | 240  |
| tttacaacac  | aaccacacga | gtccttgacg | ttggcttggt | ttgtcaatcc | caccacctca  | 300  |
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| ggagtgcagt  | agtgaatca  | gaggtcatta | cagcctccaa | ctcctgggct | taagtgatcc  | 600  |
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| caagctgacc  | aatacaatag | acattagtca | tatgtgactg | ttgagcactt | gaatatgggt  | 1560 |
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| ccatcagtga  | aacgggtgta | atttcaactc | gttgagagtg | ctcagttatg | caatatatgc  | 1920 |
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<400> 10758

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| Ile | Lys | Thr | Thr | Met | Ser | Asn | Ser | Asn | Thr | Gly | Lys | Asn | Gln | Ala | Gly |
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| Leu | Glu | Gln | Asn | Ser | Pro | Leu | Leu | Leu | Arg | Lys | Leu | Cys | Cys | Tyr | Asp |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Tyr | Phe | Glu | Pro | Leu | Cys | Thr | Ser | Thr | Tyr | Ile | Val | Arg | His | Thr |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Ala | Leu | Cys | Asp | Leu | Leu | Gly | Thr | Arg | Leu | Glu | Asn | Glu | Gly | Asp |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Leu | Leu | Gln | Thr | Gln | Ala | Cys | Leu | Cys | Tyr | Ile | Cys | Ala | Gly | Asn |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Val | Glu | Lys | Leu | Val | Ala | Cys | Trp | Thr | Lys | Ala | Gln | Asp | Gly | Ser | His |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Pro | Leu | Ser | Leu | Gln | Asp | Leu | Ile | Glu | Lys | Val | Val | Ile | Leu | Arg | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Val | Gln | Leu | Thr | Gln | Ala | Met | Asp | Thr | Ser | Thr | Val | Gly | Val | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Ala | Ala | Lys | Met | Ser | Gln | Tyr | Ala | Asn | Leu | Leu | Ala | Ala | Gln | Gly |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
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| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asn | Ile | Met | Gln | Leu | Arg | Asp | Arg | Leu | Cys | Arg | Ala | Gln | Gly | Glu | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Ala | Gly | His | Glu | Ser | Pro | Lys | Ile | Pro | Tyr | Glu | Lys | Gln | Gln | Leu |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Lys | Gly | Arg | Pro | Gly | Pro | Val | Ala | Gly | His | His | Gln | Met | Pro | Arg |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Gln | Thr | Gln | Gln | Tyr | Tyr | Pro | His | Gly | Glu | Asn | Pro | Pro | Pro | Pro |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Gly | Phe | Ile | Met | His | Gly | Asn | Val | Asn | Pro | Asn | Ala | Ala | Gly | Gln | Leu |
| 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Pro | Thr | Ser | Pro | Gly | His | Met | His | Thr | Gln | Val | Pro | Pro | Tyr | Pro | Gln |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Gln | Pro | Tyr | Gln | Pro | Ala | Gln | Pro | Tyr | Pro | Phe | Gly | Thr | Gly | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Ala | Met | Tyr | Arg | Pro | Gln | Gln | Pro | Val | Ala | Pro | Pro | Thr | Ser | Asn |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Tyr | Pro | Asn | Thr | Pro | Tyr | Ile | Ser | Ser | Ala | Ser | Ser | Tyr | Thr | Gly |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gln | Ser | Gln | Leu | Tyr | Ala | Ala | Gln | His | Gln | Ala | Ser | Ser | Pro | Thr | Ser |
| 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ser | Pro | Ala | Thr | Ser | Phe | Pro | Pro | Pro | Pro | Ser | Ser | Gly | Ala | Ser | Phe |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Gln | His | Gly | Gly | Pro | Gly | Ala | Pro | Pro | Ser | Ser | Ser | Ala | Tyr | Ala | Leu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Pro | Pro | Gly | Thr | Thr | Gly | Thr | Leu | Pro | Ala | Ala | Ser | Glu | Leu | Pro | Ala |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Gln | Arg | Thr | Gly | Pro | Gln | Asn | Gly | Trp | Asn | Asp | Pro | Pro | Ala | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Val | Pro | Lys | Lys | Lys | Lys | Met | Pro | Glu | Asn | Phe | Met | Pro | Pro |
| 370 |     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Val | Pro | Ile | Thr | Ser | Pro | Ile | Met | Asn | Pro | Leu | Gly | Asp | Pro | Gln | Ser |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Gln | Met | Leu | Gln | Gln | Gln | Pro | Ser | Ala | Pro | Val | Pro | Leu | Ser | Ser | Gln |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ser | Ser | Phe | Pro | Gln | Pro | Phe | His | Gly | Val | Gln | Gln | Pro | Leu | Gly | Gln |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Thr | Gly | Met | Pro | Pro | Ser | Phe | Ser | Lys | Pro | Asn | Ile | Glu | Gly | Ala | Pro |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Gly | Ala | Pro | Ile | Gly | Asn | Thr | Phe | Gln | His | Val | Gln | Ser | Leu | Pro |     |
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Glu Val Pro His Gly Pro Val Asp Gln Lys Phe Gln Ser Ile Val Ile  
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<213> Homo sapiens

<400> 10766

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Asn Arg Arg Arg Glu Ser Arg Ser Arg Ser Arg Ser Thr Asn Thr Ala
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| Val Ser Arg Arg Glu Arg Asp Arg Glu Arg Ala Ser Ser Pro Pro Asp |     |     |
| 65  | 70  | 75  |
| Arg Ile Asp Ile Phe Gly Arg Thr Val Ser Lys Arg Ser Ser Leu Asp |     |     |
| 85  | 90  | 95  |
| Glu Lys Gln Lys Arg Glu Glu Glu Glu Lys Lys Ala Glu Phe Glu Arg |     |     |
| 100   | 105 | 110 |
| Gln Arg Lys Ile Arg Gln Gln Glu Ile Glu Glu Lys Leu Ile Glu Glu |     |     |
| 115   | 120 | 125 |
| Glu Thr Ala Arg Arg Val Glu Glu Leu Val Ala Lys Arg Val Glu Glu |     |     |
| 130   | 135 | 140 |
| Glu Leu Glu Lys Arg Lys Asp Glu Ile Glu Arg Glu Val Leu Arg Arg |     |     |
| 145   | 150 | 155 |
| Val Glu Glu Ala Lys Arg Ile Met Glu Lys Gln Leu Leu Glu Glu Leu |     |     |
| 165   | 170 | 175 |
| Glu Arg Gln Arg Gln Ala Glu Leu Ala Ala Gln Lys Ala Arg Glu Glu |     |     |
| 180   | 185 | 190 |
| Glu Glu Arg Ala Lys Arg Glu Glu Leu Glu Arg Ile Leu Glu Glu Asn |     |     |
| 195   | 200 | 205 |
| Asn Arg Lys Ile Ala Glu Ala Gln Ala Lys Leu Ala Glu Glu Gln Leu |     |     |
| 210   | 215 | 220 |
| Arg Ile Val Glu Glu Gln Arg Lys Ile His Glu Glu Arg Met Lys Leu |     |     |
| 225   | 230 | 235 |
| Glu Gln Glu Arg Gln Arg Gln Gln Lys Glu Glu Gln Lys Ile Ile Leu |     |     |
| 245   | 250 | 255 |
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| 260   | 265 | 270 |

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000220" 69462960

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 <213> Homo sapiens

<400> 10768

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| Met | Trp | Lys | Leu | Leu | Pro | Ala | Ala | Gly | Pro | Ala | Gly | Gly | Glu | Pro | Tyr |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Arg | Leu | Leu | Thr | Gly | Val | Glu | Tyr | Val | Val | Gly | Arg | Lys | Asn | Cys | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Leu | Ile | Glu | Asn | Asp | Gln | Ser | Ile | Ser | Arg | Asn | His | Ala | Val | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Ala | Asn | Phe | Ser | Val | Thr | Asn | Leu | Ser | Gln | Thr | Asp | Glu | Ile | Pro |
|     | 50  |     |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Val | Leu | Thr | Leu | Lys | Asp | Asn | Ser | Lys | Tyr | Gly | Thr | Phe | Val | Asn | Glu |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Lys | Met | Gln | Asn | Gly | Phe | Ser | Arg | Thr | Leu | Lys | Ser | Gly | Asp | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Thr | Phe | Gly | Val | Phe | Gly | Ser | Lys | Phe | Arg | Ile | Glu | Tyr | Glu | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Val | Ala | Cys | Ser | Ser | Cys | Leu | Asp | Val | Ser | Gly | Lys | Thr | Ala | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asn | Gln | Ala | Ile | Leu | Gln | Leu | Gly | Gly | Phe | Thr | Val | Asn | Asn | Trp | Thr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Glu | Cys | Thr | His | Leu | Val | Met | Val | Ser | Val | Lys | Val | Thr | Ile | Lys |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Thr | Ile | Cys | Ala | Leu | Ile | Cys | Gly | Arg | Pro | Ile | Val | Lys | Pro | Glu | Tyr |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Phe | Thr | Glu | Phe | Leu | Lys | Ala | Val | Gln | Ser | Lys | Lys | Gln | Pro | Pro | Gln |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Glu | Ser | Phe | Tyr | Pro | Pro | Leu | Asp | Glu | Pro | Ser | Ile | Gly | Ser | Lys |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Asn | Val | Asp | Leu | Ser | Gly | Arg | Gln | Glu | Arg | Lys | Gln | Ile | Phe | Lys | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | Thr | Phe | Ile | Phe | Leu | Asn | Ala | Lys | Gln | His | Lys | Lys | Leu | Ser | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ala | Val | Val | Phe | Gly | Gly | Gly | Glu | Ala | Arg | Leu | Ile | Thr | Glu | Glu | Asn |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Glu | Glu | Glu | His | Asn | Phe | Phe | Leu | Ala | Pro | Gly | Thr | Cys | Val | Val | Asp |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Thr | Gly | Ile | Thr | Asn | Ser | Gln | Thr | Leu | Ile | Pro | Asp | Cys | Gln | Lys | Lys |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Trp | Ile | Gln | Ser | Ile | Met | Asp | Met | Leu | Gln | Arg | Gln | Gly | Leu | Arg | Pro |
|     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |
| Ile | Pro | Glu | Ala | Glu | Ile | Gly | Leu | Ala | Val | Ile | Phe | Met | Thr | Thr | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Asn | Tyr | Cys | Asp | Pro | Gln | Gly | His | Pro | Ser | Thr | Gly | Leu | Lys | Thr | Thr |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Thr | Pro | Gly | Pro | Ser | Leu | Ser | Gln | Gly | Val | Ser | Val | Asp | Glu | Lys | Leu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Met | Pro | Ser | Ala | Pro | Val | Asn | Thr | Thr | Thr | Tyr | Val | Ala | Asp | Thr | Glu |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Ser | Glu | Gln | Ala | Asp | Thr | Trp | Asp | Leu | Ser | Glu | Arg | Pro | Lys | Glu | Ile |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Val | Ser | Lys | Met | Glu | Gln | Lys | His | Gln | Leu | Asn | Cys | Gln | Val |     |
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<400> 10769

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<212> PRT

<213> Homo sapiens

<400> 10770

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Val Ser His Gln Glu Thr Ser Val Gly Ala Leu Gly Ser Leu Cys Arg
      35             40             45
Gln Phe Gln Arg Arg Leu Pro Leu Arg Thr Val Asn Leu Asn Leu Arg
      50             55             60
Ala Gly Pro Ser Trp Lys Arg Leu Glu Thr Pro Glu Pro Gly Gln Gln
      65             70             75             80
Gly Leu Gln Ala Ala Ala Arg Ser Ala Lys Ser Ala Leu Gly Ala Val
      85             90             95
Ser Gln Arg Ile Gln Glu Ser Cys Gln Ser Gly Thr Lys Trp Leu Val

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|   |     |     |     |     |     |
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| Glu Thr Gln Val Lys Ala Arg Arg Arg Lys Arg Gly Ala Gln Lys Gly |     |     |     |     |     |
|   | 115 |     | 120 |     | 125 |
| Ser Gly Ser Pro Thr His Ser Leu Ser Gln Lys Ser Thr Arg Leu Ser |     |     |     |     |     |
|   | 130 |     | 135 |     | 140 |
| Gly Ala Ala Pro Ala His Ser Ala Ala Asp Pro Trp Glu Lys Glu His |     |     |     |     |     |
| 145   |     | 150 |     | 155 | 160 |
| His Arg Leu Ser Val Arg Met Gly Ser His Ala His Pro Leu Arg Arg |     |     |     |     |     |
|   | 165 |     | 170 |     | 175 |
| Ser Arg Arg Glu Ala Ala Phe Arg Ser Pro Tyr Ser Ser Thr Glu Pro |     |     |     |     |     |
|   | 180 |     | 185 |     | 190 |
| Leu Cys Ser Pro Ser Glu Ser Asp Ser Asp Leu Glu Pro Val Gly Ala |     |     |     |     |     |
|   | 195 |     | 200 |     | 205 |
| Gly Ile Gln His Leu Gln Lys Leu Ser Gln Glu Leu Asp Glu Ala Ile |     |     |     |     |     |
| 210   |     | 215 |     | 220 |     |
| Met Ala Glu Glu Ser Gly Asp Ile Val Ser Leu Ile His Asp         |     |     |     |     |     |
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| tggtctcccc  | caagcactgt  | gttctggctc | ggcccaaagg | gactccccct | ctgccccctg | 180  |
| tcgaaaagtc  | cagcctggac  | cagaagaacc | gggccagccc | tcagcacagt | gccagcggca | 240  |
| gcggcaccag  | cagccccctg  | aaccaaccag | ccgccttccc | ggcgggcctc | ccagacgagc | 300  |
| ctagcggcaa  | gacgaaggac  | gccagcagca | gcagcaagct | cttcagtgcc | aagctggagc | 360  |
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| ccccggagcg  | ggccgagagc  | ctgtcctccg | tgagctcccg | gotgcacgcg | ggcaaggacg | 480  |
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| ccgggggcctc | gcccgaaggcc | ggccagtgca | agatctccgc | cgtgagcaga | ctcctcctgg | 600  |
| ccagccccag  | agcgcacggc  | ccgtccgcct | ccaccaccaa | aaccctcagc | ttctccacca | 660  |
| agtccctgcc  | gcaggcgggtg | ggccagggct | ccagctcgcc | ccccggtggg | aagcacacgc | 720  |
| cctggtccac  | gcagtccctc  | agcaggaaca | ggagctcggg | cctggcctcc | aagcttcccc | 780  |
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| ccgcggccgc  | gcacctgctc  | ccgtcgccct | acagcaagat | cacgcccccg | cggaggcccc | 960  |
| accgctgcag  | cagcggccac  | ggcagcgaca | acagcagcgt | gctgagcggg | gagctccgcg | 1020 |
| cggccatggg  | gaagacggcc  | ctgttctacc | acagcggcgg | cagcagcggc | tacgagagcg | 1080 |
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 <212> PRT  
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<400> 10772

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| Met | Pro | Arg | Ala | Gly | Arg | Ser | Leu | Gly | Arg | Ser | Ala | Gly | Thr | Ser | Pro |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Pro | Ser | Ser | Gly | Ala | Ser | Pro | Lys | Ala | Gly | Gln | Ser | Lys | Ile | Ser | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ser | Arg | Leu | Leu | Leu | Ala | Ser | Pro | Arg | Ala | His | Gly | Pro | Ser | Ala |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     | 45  |     |     |     |
| Ser | Thr | Thr | Lys | Thr | Leu | Ser | Phe | Ser | Thr | Lys | Ser | Leu | Pro | Gln | Ala |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Val | Gly | Gln | Gly | Ser | Ser | Ser | Pro | Pro | Gly | Gly | Lys | His | Thr | Pro | Trp |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Ser | Thr | Gln | Ser | Leu | Ser | Arg | Asn | Arg | Ser | Ser | Gly | Leu | Ala | Ser | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Pro | Leu | Arg | Ala | Val | Ser | Gly | Arg | Ile | Ser | Glu | Leu | Leu | Gln | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Ala | Gly | Ala | Arg | Gly | Leu | Gln | Leu | Arg | Ala | Gly | Pro | Glu | Ala | Glu |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Arg | Gly | Gly | Ala | Leu | Ala | Glu | Asp | Glu | Pro | Ala | Ala | Ala | His | Leu |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Pro | Ser | Pro | Tyr | Ser | Lys | Ile | Thr | Pro | Pro | Arg | Arg | Pro | His | Arg |
|     |     |     |     | 145 |     | 150 |     |     |     | 155 |     |     |     | 160 |     |
| Cys | Ser | Ser | Gly | His | Gly | Ser | Asp | Asn | Ser | Ser | Val | Leu | Ser | Gly | Glu |

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|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| tgctatttct  | gatatcactt | aaacctttac  | aagaaaaaag | gctgtggtga | ctcagtgttc | 600  |
| ctataaattc  | agaatgtgga | aactactaat  | ccaaagcatt | acttctagca | ctgagtatca | 660  |
| agacgatcag  | cctgacccaa | atattgcaaa  | gagttttcta | agtctctgaa | gatttttttc | 720  |
| tccttgaaca  | ctgagtctat | agcagtcagc  | aatgtacctt | agccgatccc | tgggaatggg | 780  |
| tatggaacag  | tagggcttgt | ttccatcctt  | tttagagtga | agagatagaa | aattagggct | 840  |
| acctagtgtg  | ggttcttttt | cagaactatg  | tattttctcc | tcactgcatg | atgggtaaaa | 900  |
| atgccctggg  | ttgaaacaag | aaacattatc  | tttccacacc | actgactaaa | acacctgcca | 960  |
| gtggtttctt  | taggctccac | cttttgctcc  | gtaaactgta | gactttcaga | ctgaaatcta | 1020 |
| atcttaagtg  | acctcaatta | aggtattttc  | acaaaaggct | acttatagtg | tagcattatt | 1080 |
| gccttaaata  | agaaagccct | gggaagagga  | taaaagatat | agaaatgaga | aggctctgaa | 1140 |
| gttataggca  | tttcttgctg | tttaatagtt  | acattatcac | aaaaacaagc | cctattcatg | 1200 |
| attgaggact  | atggaaatag | tgacttcttg  | aggaggcacc | aaactttcct | agaactgggt | 1260 |
| actctcagat  | agtggctgct | atttcttatt  | ctatttcagt | gacgtagggt | ggggctgaat | 1320 |
| gtaaaataga  | catcatatta | ctaaatagaa  | tcctataaaa | tgcaatcaca | ggtgcccggg | 1380 |
| agtactagtt  | ttaaacattt | ccttaacaag  | gagaacaatc | cagcaaaaag | ctttctttct | 1440 |
| ctatacagtg  | catatctcta | aacttttctt  | cctcagtttt | agagaacatc | tgttttatct | 1500 |
| ggtggttctt  | tgtttgaatg | caaaactcata | actttcaagt | ctccggtgca | agagcataat | 1560 |
| ctacagatca  | tgggcaaaat | ctagccacag  | tcctgagagt | ccaggcttct | gggatgcccc | 1620 |
| gctgggtata  | aaagtcctta | ctaaccctgt  | ttcaaattca | gaggtttctt | tggtttagaa | 1680 |
| tgccctcaatg | agattttgat | acatccaaga  | gag        |            |            | 1713 |

<210> 10774  
 <211> 2070  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (1).. (804)

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| <400> 10774 |             |             |            |             |             |     |
| atgcagcaga  | tccgcccggc  | cttcatccgc  | gggcctccgc | accatgcctc  | caaccccaac  | 60  |
| agccccctgt  | ccaaccccat  | gcttcccggc  | atcgggcccc | cgcccgggtg  | ccccagaaac  | 120 |
| ctgggcccga  | cttccagccc  | catgcaccgg  | cccatgctat | cgccccacat  | ccaccccccg  | 180 |
| agcacccccga | ccatgcccgg  | gaacccccca  | ggcctgctgc | ccccgcgcgc  | tccgggcgcgc | 240 |
| ccactgccga  | gtcttccctt  | cccgccagtg  | agcatgatgc | caaattggccc | gatgccgggtg | 300 |
| ccccagatga  | tgaatttcgg  | gctgccgtcg  | cttgccccgc | tgggtgccgc  | cccgaccctg  | 360 |
| ctcgtgccgt  | accccgatg   | cgtgccccta  | ccggtgcccc | tccccatccc  | catccctatc  | 420 |
| cctcacgtca  | gcgactccaa  | gccccccaag  | aagctgctgt | cgcttgagga  | accggcgggtg | 480 |
| agcgagctag  | agtcgggtcaa | ggagaataac  | tgtgcttcca | actgccacct  | ggacgggggag | 540 |
| gcggccaaaa  | agctgatggg  | cgaggaggcc  | ctggcggggg | gcgacaagtc  | agaccogaac  | 600 |
| cttaataaac  | ccgcgggacga | ggaccatgcc  | tatgctctgc | ggatgctgcc  | caagaccggc  | 660 |
| tgctgtatcc  | agcctgtgcc  | aaaacccgcg  | gagaaggctg | ccatggcacc  | gtgcatcatc  | 720 |
| tcctcgccga  | tgctcagcgc  | cgggcctgag  | gacctggagc | cgccgctcaa  | aaggagggtgc | 780 |
| ctccgaatta  | gaaatcagaa  | taagtaaaaag | gaacgttcac | tcacagggta  | cgctcatgga  | 840 |
| gagagggcgc  | agagcaaacc  | atgtcacgcc  | atccaatgac | accagctggg  | cagctcacca  | 900 |
| ccccctctgt  | ctaaaactca  | agcaaataaa  | gccgcttctt | gtcattaagc  | atctcagagg  | 960 |

09629469.02300

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aagcagccct ccctcgatgg cctctagccc agagaagccc ggcgatcttg gaccaccaa 1020
gcaggcccag ccttcctgct gccaccatct ctgcttctcc ccagaggaac ttagagattt 1080
caccctggc ttttaaaaaa aacgaaatac cgacaagcca caaggaccaa ttaggtatt 1140
ctccccgcc catcttcaag gctcagcgac tgaggctgga agatgatatg gattggaaca 1200
caaaaaatct tttttaatc tttttaaaaa ctgctgtggt tttgctgcta cactaagaat 1260
tgtgatttgc attgtacggt tttggacctt tattgttcac gttttgatgg cggagagggg 1320
tggtcctgga ggcccaatgc ttcagagtca tctctgtcct gcccgggatg cactttaaat 1380
gaagagttag aatattttat tggctaatat acttttcttg ttatttttac aaaggccacc 1440
tttatccttt ttgatgccat attttcagtg ttacactttt atggctttta attttcgatt 1500
tgacagatgt aagaagcagc atgaatagtt tatactgtgg tttttcagag actgaatgcc 1560
aagagaactc ggtaaagtgt tattcttctc agctttctct ttaaattccc ctaaatagcg 1620
ccccatttgg gaacagagca agagtgttga actgaagacc aaaatgccct caaggtgtaa 1680
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acccatgatt ctgtttcact gtttgctttc tctgtcatg gtttaagagaa atgtgcaatt 1920
cgatcctcaa tcagtgggtg gaggataaca gggtagattc acttgtgtgc acttgtacag 1980
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<210> 10775  
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 <212> PRT  
 <213> Homo sapiens

<400> 10775

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             20             25             30
Pro Pro Pro Gly Gly Pro Arg Asn Leu Gly Pro Thr Ser Ser Pro Met
             35             40             45
His Arg Pro Met Leu Ser Pro His Ile His Pro Pro Ser Thr Pro Thr
             50             55             60
Met Pro Gly Asn Pro Pro Gly Leu Leu Pro Pro Pro Pro Gly Ala
             65             70             75             80
Pro Leu Pro Ser Leu Pro Phe Pro Pro Val Ser Met Met Pro Asn Gly
             85             90             95
Pro Met Pro Val Pro Gln Met Met Asn Phe Gly Leu Pro Ser Leu Ala
             100            105            110
Pro Leu Val Pro Pro Pro Thr Leu Leu Val Pro Tyr Pro Val Ile Val
             115            120            125
Pro Leu Pro Val Pro Ile Pro Ile Pro Ile Pro Ile Pro His Val Ser
             130            135            140
Asp Ser Lys Pro Pro Lys Lys Leu Leu Ser Pro Glu Glu Pro Ala Val
145             150             155             160
Ser Glu Leu Glu Ser Val Lys Glu Asn Asn Cys Ala Ser Asn Cys His

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09629469.072800

<210> 10776  
<211> 1798  
<212> DNA  
<213> Homo sapiens

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| cgcacatctc  | tttttctgca | tgggtggatat | tatttttcat | tatccttttc  | tgggtgctat  | 120  |
| gggtgatcat  | tccaagaaga | agccccgggac | ggccatgtgc | gtgggctgcg  | ggagtcagat  | 180  |
| ccacgaccag  | tttatcctgc | gggtgtcgcc  | cgacctcgag | tggcacgcgg  | cctgcctcaa  | 240  |
| gtgtgccgag  | tgcagccagt | acctggacga  | gacgtgcacg | tgcttcgtga  | gagacgggaa  | 300  |
| gacctactgc  | aagcgggact | acgtcaggct  | gttcggcatc | aagtgcgcca  | agtgccaggt  | 360  |
| gggcttcagc  | agcagcgacc | tgggtgatgag | ggcgcgggac | agcgtgtacc  | acatcgagtg  | 420  |
| cttccgctgc  | tccgtgtgca | gccgccagct  | gctgcctggg | gacgagttct  | cgtctcgggga | 480  |
| gcacgagctg  | ctctgccgcg | ccgaccacgg  | cctcctgctc | gagcgcgccg  | cggccggcag  | 540  |
| cccgcgcagc  | cccggccccg | ttcccggcgc  | ccgcggcctg | catctgcccg  | acgctgggtc  | 600  |
| gggcccggcag | cccgcgttgc | gcccgcacgt  | gcacaagcag | acggagaaga  | cgaccgcgct  | 660  |
| gcggactgtg  | ctgaacgaga | agcagctgca  | cactctgogg | acctgctacg  | ccgccaaccc  | 720  |
| gcggcccgcac | gctctcatga | aggagcagct  | ggtggagatg | accggcctga  | gcccgcgggt  | 780  |
| catccgcgtc  | tggttccaga | acaagcgctg  | caaggacaag | aagaaatcca  | ttctcatgaa  | 840  |
| gcagctgcag  | cagcagcagc | acagcgacaa  | gacgagcctt | cagggactga  | ctgggacgcc  | 900  |
| cctgggtggcg | ggcagtccca | tccgccatga  | gaacgcctg  | cagggcagcg  | cagtggaggt  | 960  |
| gcagacgtac  | cagccgccgt | ggaaggcgct  | cagcgagttt | gccctccaga  | gcgacctgga  | 1020 |
| ccaacccgcc  | ttccaacagc | tgggtctcctt | ctccgagtc  | ggctccctag  | gcaactcctc  | 1080 |
| cggcagcgac  | gtgacctccc | tgtcctcgca  | gctcccgga  | accccccaaca | gtatggtgcc  | 1140 |
| gagtcccgtg  | gagacgtgag | ggggaccctt  | ccctgccagc | ccgcggacct  | cgcattgctc  | 1200 |
| ctgcatgaga  | ctcaccatg  | ctcaggccat  | tccagttccg | aaagctctct  | cgccttcgta  | 1260 |
| attattctat  | tgttatttat | gagagagtac  | cgagagacac | ggtctggaca  | gcccgaaggcg | 1320 |
| ccaggatgca  | acctgctttc | accagactgc  | agacccttgc | tccgaggact  | cttagttttt  | 1380 |

caaaaccaga atctgggact taccaggggt agctctgccc tctcctctcc tctctacgtg 1440  
gccgcccgtc tgtctctcca cgcgccacct gtgtcccat ctcggccggc cgggagctcg 1500  
cccacgcgga ccccgccct gccccagctc agcgtccct ggcggcttcg cccgggctcc 1560  
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ggacagagta tgtgagcctt tgccgaacaa acaaacgtaa gttattgtta tttattgtga 1740  
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<210> 10777

<211> 359

<212> PRT

<213> Homo sapiens

<400> 10777

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Asp | Ile | Ile | Phe | His | Tyr | Pro | Phe | Leu | Gly | Ala | Met | Gly | Asp | 1   | 5   | 10  | 15  |
| His | Ser | Lys | Lys | Lys | Pro | Gly | Thr | Ala | Met | Cys | Val | Gly | Cys | Gly | Ser | 20  | 25  | 30  |     |
| Gln | Ile | His | Asp | Gln | Phe | Ile | Leu | Arg | Val | Ser | Pro | Asp | Leu | Glu | Trp | 35  | 40  | 45  |     |
| His | Ala | Ala | Cys | Leu | Lys | Cys | Ala | Glu | Cys | Ser | Gln | Tyr | Leu | Asp | Glu | 50  | 55  | 60  |     |
| Thr | Cys | Thr | Cys | Phe | Val | Arg | Asp | Gly | Lys | Thr | Tyr | Cys | Lys | Arg | Asp | 65  | 70  | 75  | 80  |
| Tyr | Val | Arg | Leu | Phe | Gly | Ile | Lys | Cys | Ala | Lys | Cys | Gln | Val | Gly | Phe | 85  | 90  | 95  |     |
| Ser | Ser | Ser | Asp | Leu | Val | Met | Arg | Ala | Arg | Asp | Ser | Val | Tyr | His | Ile | 100 | 105 | 110 |     |
| Glu | Cys | Phe | Arg | Cys | Ser | Val | Cys | Ser | Arg | Gln | Leu | Leu | Pro | Gly | Asp | 115 | 120 | 125 |     |
| Glu | Phe | Ser | Leu | Arg | Glu | His | Glu | Leu | Leu | Cys | Arg | Ala | Asp | His | Gly | 130 | 135 | 140 |     |
| Leu | Leu | Leu | Glu | Arg | Ala | Ala | Ala | Gly | Ser | Pro | Arg | Ser | Pro | Gly | Pro | 145 | 150 | 155 | 160 |
| Leu | Pro | Gly | Ala | Arg | Gly | Leu | His | Leu | Pro | Asp | Ala | Gly | Ser | Gly | Arg | 165 | 170 | 175 |     |
| Gln | Pro | Ala | Leu | Arg | Pro | His | Val | His | Lys | Gln | Thr | Glu | Lys | Thr | Thr | 180 | 185 | 190 |     |
| Arg | Val | Arg | Thr | Val | Leu | Asn | Glu | Lys | Gln | Leu | His | Thr | Leu | Arg | Thr | 195 | 200 | 205 |     |
| Cys | Tyr | Ala | Ala | Asn | Pro | Arg | Pro | Asp | Ala | Leu | Met | Lys | Glu | Gln | Leu | 210 | 215 | 220 |     |
| Val | Glu | Met | Thr | Gly | Leu | Ser | Pro | Arg | Val | Ile | Arg | Val | Trp | Phe | Gln | 225 | 230 | 235 | 240 |
| Asn | Lys | Arg | Cys | Lys | Asp | Lys | Lys | Lys | Ser | Ile | Leu | Met | Lys | Gln | Leu | 245 | 250 | 255 |     |
| Gln | Gln | Gln | Gln | His | Ser | Asp | Lys | Thr | Ser | Leu | Gln | Gly | Leu | Thr | Gly |     |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 260 |     | 265 |     | 270 |     |     |     |     |     |     |     |     |     |     |
| Thr | Pro | Leu | Val | Ala | Gly | Ser | Pro | Ile | Arg | His | Glu | Asn | Ala | Val | Gln |
|     | 275 |     | 280 |     | 285 |     |     |     |     |     |     |     |     |     |     |
| Gly | Ser | Ala | Val | Glu | Val | Gln | Thr | Tyr | Gln | Pro | Pro | Trp | Lys | Ala | Leu |
|     | 290 |     | 295 |     | 300 |     |     |     |     |     |     |     |     |     |     |
| Ser | Glu | Phe | Ala | Leu | Gln | Ser | Asp | Leu | Asp | Gln | Pro | Ala | Phe | Gln | Gln |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Val | Ser | Phe | Ser | Glu | Ser | Gly | Ser | Leu | Gly | Asn | Ser | Ser | Gly | Ser |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Asp | Val | Thr | Ser | Leu | Ser | Ser | Gln | Leu | Pro | Asp | Thr | Pro | Asn | Ser | Met |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Val | Pro | Ser | Pro | Val | Glu | Thr |     |     |     |     |     |     |     |     |     |
|     |     |     | 355 |     |     |     |     |     |     |     |     |     |     |     |     |

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (75).. (887)

<400> 10778

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| ctggaggcgg  | cgggatggag | gcggcggccg  | agcctggaaa | cctggccggc | gtcaggcaca | 120  |
| tcatcctggt  | cctctcagga | aaggggggcg  | ttgggaaaag | caccatctcc | acggagctgg | 180  |
| ccctggcaact | gcgccatgca | ggcaagaagg  | tgggaatcct | ggatgtggac | ctgtgtggcc | 240  |
| ccagtatacc  | ccgcatgctc | ggggcgcagg  | gcagggctgt | gcaccagtgc | gaccgcggct | 300  |
| gggcacccgt  | cttcctggac | cgggagcaga  | gcattctcgt | catgtctgtg | ggcttcctgc | 360  |
| tggagaagcc  | ggacgaggcc | gtggtgtgga  | gaggcccaa  | gaaaaacgcg | ctgataaagc | 420  |
| agtttgtgtc  | cgacgtggcc | tgggggggagc | tggactacct | ggtggtggac | acgcccccg  | 480  |
| ggacctccga  | tgagcacatg | gccaccatag  | aagccctgcg | tccctaccag | cccctggggg | 540  |
| ccctcgtggt  | caccacgccc | caggcgggtgt | ccgtggggga | cgtgaggcgc | gagctgacct | 600  |
| tctgtaggaa  | gacgggcttg | cgggtgatgg  | gaatcgtgga | gaatatgagc | ggcttcacct | 660  |
| gcccacactg  | cacggagtgc | accagcgtct  | tctccagggg | cggcggagag | gagctggccc | 720  |
| agctcgccgg  | ggtgcccttc | ttaggctccg  | tgcccctgga | ccctgcgctc | atgaggaccc | 780  |
| tggaggaggg  | ccacgactcc | atccaggagt  | tcccggggag | ccccgccttc | gctgcaactc | 840  |
| cctccatagc  | ccagaagatt | ctggacgcga  | cgcccgcgtg | cctccctga  | ctaaggccac | 900  |
| cttgacgccc  | ctttccaggg | ccaccaaggg  | ctctgtctca | gcctctcaga | gaaacagagg | 960  |
| cctgggctcg  | gttcccgggc | cctgcagggg  | caggcccagg | cagcgtcagc | gggagagctt | 1020 |
| ctccccgacc  | agcccagccc | caggatgtgt  | cgcaccagca | gctctgcctg | gttggcctgc | 1080 |
| agtgcggtgg  | totgcgtgct | ctgcagctgt  | gagacggggg | cggcctgggc | totcttccca | 1140 |
| tccatgttgc  | ctacctgtgc | ccctggcagc  | cgcgtgtcca | cacagttagc | ggagcgcagg | 1200 |
| acttotgcag  | tcctcaggtg | accccggggc  | tccagcacc  | tgggtcgtgt | tcatctgtgt | 1260 |
| ttagctcggg  | gagtgcccc  | taagggggcg  | aactgacctc | aggcatgtct | tgtaactgta | 1320 |
| gaggcgccgtg | ccattaaacg | tgtccgctgc  | tgtggcgaca | gatctg     |            | 1366 |

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<210> 10779  
 <211> 271  
 <212> PRT  
 <213> Homo sapiens

<400> 10779

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Ala | Ala | Ala | Glu | Pro | Gly | Asn | Leu | Ala | Gly | Val | Arg | His | Ile |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ile | Leu | Val | Leu | Ser | Gly | Lys | Gly | Gly | Val | Gly | Lys | Ser | Thr | Ile | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Glu | Leu | Ala | Leu | Ala | Leu | Arg | His | Ala | Gly | Lys | Lys | Val | Gly | Ile |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |
| Leu | Asp | Val | Asp | Leu | Cys | Gly | Pro | Ser | Ile | Pro | Arg | Met | Leu | Gly | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gln | Gly | Arg | Ala | Val | His | Gln | Cys | Asp | Arg | Gly | Trp | Ala | Pro | Val | Phe |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Leu | Asp | Arg | Glu | Gln | Ser | Ile | Ser | Leu | Met | Ser | Val | Gly | Phe | Leu | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Lys | Pro | Asp | Glu | Ala | Val | Val | Trp | Arg | Gly | Pro | Lys | Lys | Asn | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Ile | Lys | Gln | Phe | Val | Ser | Asp | Val | Ala | Trp | Gly | Glu | Leu | Asp | Tyr |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Leu | Val | Val | Asp | Thr | Pro | Pro | Gly | Thr | Ser | Asp | Glu | His | Met | Ala | Thr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ile | Glu | Ala | Leu | Arg | Pro | Tyr | Gln | Pro | Leu | Gly | Ala | Leu | Val | Val | Thr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Thr | Pro | Gln | Ala | Val | Ser | Val | Gly | Asp | Val | Arg | Arg | Glu | Leu | Thr | Phe |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Cys | Arg | Lys | Thr | Gly | Leu | Arg | Val | Met | Gly | Ile | Val | Glu | Asn | Met | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Phe | Thr | Cys | Pro | His | Cys | Thr | Glu | Cys | Thr | Ser | Val | Phe | Ser | Arg |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Gly | Gly | Glu | Glu | Leu | Ala | Gln | Leu | Ala | Gly | Val | Pro | Phe | Leu | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     | 240 |     |
| Asp | Ser | Ile | Gln | Glu | Phe | Pro | Gly | Ser | Pro | Ala | Phe | Ala | Ala | Leu | Thr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Ile | Ala | Gln | Lys | Ile | Leu | Asp | Ala | Thr | Pro | Ala | Cys | Leu | Pro |     |
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<212> PRT

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<400> 10782

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          20             25             30
Val Lys Ser Glu Leu Glu Leu Leu Ala Asp Val Lys Asp Ile Tyr His
          35             40             45
Arg His Lys Asn Leu Lys Phe Pro Lys Pro Phe Leu Phe Lys Leu Lys

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| 65  |     | 70  |     | 75  |
| Ile Lys Arg Phe Gln Val Asp Val Ile Leu Asp Pro Glu Ala Ala His |     |     |     | 80  |
|   | 85  |     | 90  |     |
| Arg Lys Leu Ile Val Ser Glu Asp Arg Lys Thr Val Arg Tyr Gly Asn |     |     |     | 95  |
|   | 100 |     | 105 |     |
| Thr Thr Gln Asn Leu Pro His Asn Pro Arg Arg Phe Tyr Leu Leu Pro |     |     |     | 110 |
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| aagactgcaa | gtggcaacgt | ggaagcaaaa | gtagtatgct | tttatagacg | acgtgatatt  | 180  |
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| acaacagttg | aggctgactt | gaccgataag | cagaaacatc | agttgaaaca | tagggaactc  | 300  |
| tttttgtcac | gccagtatga | atctctgccc | gcaacacata | tcaggggaaa | gtgcagtgtt  | 360  |
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| cagattgacc | agtttttagt | tgtagcacgt | gctgttgagg | cattcgccag | agccctggat  | 660  |
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<211> 515

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| Met | Ala | Ala | Asn | Met | Tyr | Arg | Val | Gly | Asp | Tyr | Val | Tyr | Phe | Glu | Asn |
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| Ser | Ser | Ser | Asn | Pro | Tyr | Leu | Ile | Arg | Arg | Ile | Glu | Glu | Leu | Asn | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Ala | Ser | Gly | Asn | Val | Glu | Ala | Lys | Val | Val | Cys | Phe | Tyr | Arg | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Asp | Ile | Ser | Asn | Thr | Leu | Ile | Met | Leu | Ala | Asp | Lys | His | Ala | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Ile | Glu | Glu | Glu | Ser | Glu | Thr | Thr | Val | Glu | Ala | Asp | Leu | Thr | Asp |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Lys | Gln | Lys | His | Gln | Leu | Lys | His | Arg | Glu | Leu | Phe | Leu | Ser | Arg | Gln |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Tyr | Glu | Ser | Leu | Pro | Ala | Thr | His | Ile | Arg | Gly | Lys | Cys | Ser | Val | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Leu | Leu | Asn | Glu | Thr | Glu | Ser | Val | Leu | Ser | Tyr | Leu | Asp | Lys | Glu | Asp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Phe | Phe | Tyr | Ser | Leu | Val | Tyr | Asp | Pro | Ser | Leu | Lys | Thr | Leu | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Ala | Asp | Lys | Gly | Glu | Ile | Arg | Val | Gly | Pro | Arg | Tyr | Gln | Ala | Asp | Ile |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Pro | Glu | Met | Leu | Leu | Glu | Gly | Glu | Ser | Asp | Glu | Arg | Glu | Gln | Ser | Lys |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Leu | Glu | Val | Lys | Val | Trp | Asp | Pro | Asn | Ser | Pro | Leu | Thr | Asp | Arg | Gln |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Asp | Gln | Phe | Leu | Val | Val | Ala | Arg | Ala | Val | Gly | Thr | Phe | Ala | Arg |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ala | Leu | Asp | Cys | Ser | Ser | Ser | Val | Arg | Gln | Pro | Ser | Leu | His | Met | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Ala | Ala | Ala | Ala | Ser | Arg | Asp | Ile | Thr | Leu | Phe | His | Ala | Met | Asp | Thr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Tyr | Arg | His | Ser | Tyr | Asp | Leu | Ser | Ser | Ala | Ile | Ser | Val | Leu | Val |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Pro | Leu | Gly | Gly | Pro | Val | Leu | Cys | Arg | Asp | Glu | Met | Glu | Glu | Trp | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Ser | Glu | Ala | Ser | Leu | Phe | Glu | Glu | Ala | Leu | Glu | Lys | Tyr | Gly | Lys |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Asp | Phe | Asn | Asp | Ile | Arg | Gln | Asp | Phe | Leu | Pro | Trp | Lys | Ser | Leu | Thr |

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|   |     |     |
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| Val Tyr Ile Pro Thr Tyr Ser Lys Pro Asn Pro Asn Gln Ile Ser Thr |     | 335 |
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| Ser Asn Gly Lys Pro Gly Ala Val Asn Gly Ala Val Gly Thr Thr Phe |     | 350 |
|   | 355 | 360 |
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|   | 370 | 375 |
| Thr Gln Ser His Gln Trp Tyr Ser Trp Gly Pro Pro Asn Met Gln Cys |     | 380 |
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| Arg Leu Cys Ala Ile Cys Trp Leu Tyr Trp Lys Lys Tyr Gly Gly Leu |     | 400 |
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| Gly Met Pro Val Arg Asn Thr Gly Ser Pro Lys Ser Ala Val Lys Thr |     | 445 |
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| Gln Val Cys Lys Asn Thr Leu Arg Leu Arg Gln Ala Ala Arg Arg Pro |     | 480 |
|   | 485 | 490 |
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Pro Thr Asp Gly Gln Pro Gln Thr Gln Pro Ser Glu Asn Thr Glu Asn  
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Val Thr Phe Glu Asn Ser Ala Asp Ala Asp Arg Ala Arg Glu Lys Leu  
165 170 175  
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<211> 255

<212> PRT

<213> Homo sapiens

<400> 10789

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| Met | Phe | Trp | Arg | Asn | Pro | Leu | Pro | Asn | Ile | Asp | His | Glu | Leu | Gln | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Leu | Ile | Asp | Arg | Gly | Glu | Asp | Val | Pro | Ser | Glu | Glu | Glu | Glu | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Glu | Asn | Gly | Phe | Glu | Asp | Arg | Lys | Asp | Asp | Ser | Asp | Asp | Asp | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Gly | Trp | Ile | Thr | Pro | Ser | Asn | Ile | Lys | Gln | Ile | Gln | Gln | Glu | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Gln | Cys | Asp | Val | Pro | Glu | Asp | Val | Arg | Val | Gly | Cys | Leu | Thr | Thr |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Asp | Phe | Ala | Met | Gln | Asn | Val | Leu | Leu | Gln | Met | Gly | Leu | His | Val | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Val | Asn | Gly | Met | Leu | Ile | Arg | Glu | Ala | Arg | Ser | Tyr | Ile | Leu | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Cys | His | Gly | Cys | Phe | Lys | Thr | Thr | Ser | Asp | Met | Ser | Arg | Val | Phe | Cys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | His | Cys | Gly | Asn | Lys | Thr | Leu | Lys | Lys | Val | Ser | Val | Thr | Val | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Asp | Gly | Thr | Leu | His | Met | His | Phe | Ser | Arg | Asn | Pro | Lys | Val | Leu |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Asn | Pro | Arg | Gly | Leu | Arg | Tyr | Ser | Leu | Pro | Thr | Pro | Lys | Gly | Gly | Lys |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Tyr | Ala | Ile | Asn | Pro | His | Leu | Thr | Glu | Asp | Gln | Arg | Phe | Pro | Gln | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Leu | Ser | Gln | Lys | Ala | Arg | Gln | Lys | Thr | Asn | Val | Phe | Ala | Pro | Asp |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Tyr | Ile | Ala | Gly | Val | Ser | Pro | Phe | Val | Glu | Asn | Asp | Ile | Ser | Ser | Arg |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
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245

250

255

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<400> 10790

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Thr Ala Asn Pro Gln Leu Gln Glu Gln Met Arg Pro Gln Leu Pro Ala  
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Phe Leu Gln Gln Met Gln Asn Pro Asp Thr Leu Ser Ala Met Ser Asn  
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<210> 10794  
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 <212> PRT  
 <213> Homo sapiens

<400> 10794

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Thr | Phe | Gly | Gly | Leu | Phe | Pro | Tyr | Pro | Tyr | Thr | Tyr | Met | Ala |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ala | Ala | Ala | Ala | Ala | Ala | Ser | Ala | Leu | Pro | Ala | Thr | Ser | Ala | Ala | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Ala | Ala | Ala | Ala | Ala | Gly | Ser | Leu | Ser | Arg | Ser | Pro | Phe | Leu | Gly |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ser | Ala | Arg | Pro | Arg | Leu | Arg | Phe | Ser | Pro | Tyr | Gln | Ile | Pro | Val | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ile | Pro | Pro | Ser | Thr | Ser | Leu | Leu | Thr | Thr | Gly | Leu | Ala | Ser | Glu | Gly |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ser | Lys | Ala | Ala | Gly | Gly | Asn | Ser | Arg | Glu | Pro | Ser | Pro | Leu | Pro | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Ala | Leu | Arg | Lys | Val | Gly | Ala | Pro | Ser | Arg | Gly | Ala | Leu | Ser | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Gly | Ser | Ala | Lys | Glu | Ala | Ala | Asn | Glu | Leu | Gln | Ser | Ile | Gln | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Val | Ser | Gly | Leu | Glu | Ser | Gln | Arg | Ala | Leu | Ser | Pro | Gly | Arg | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Ser | Pro | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |
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<210> 10795  
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 <212> DNA  
 <213> Homo sapiens

<220>

<221> CDS  
<222> (81).. (908)

<400> 10795

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<400> 10796

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-4270/13211-

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Leu Tyr Ile Ser Leu His Arg His Asp Asp Gly Asn Phe Phe Pro Gly
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Ser Gly Ala Val Asp Glu Val Gly Ala Gly Ser Gly Glu Gly Phe Asn
      65      70      75      80
Val Asn Val Ala Trp Ala Gly Gly Leu Asp Pro Pro Met Gly Asp Pro
      85      90      95
Glu Tyr Leu Ala Ala Phe Arg Ile Val Val Met Pro Ile Ala Arg Glu
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Phe Ser Pro Asp Leu Val Leu Val Ser Ala Gly Phe Asp Ala Ala Glu
      115      120      125
Gly His Pro Ala Pro Leu Gly Gly Tyr His Val Ser Ala Lys Cys Phe
      130      135      140
Gly Tyr Met Thr His Gln Leu Met Asn Leu Ala Gly Gly Ala Val Val
      145      150      155      160
Leu Ala Leu Glu Gly Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser
      165      170      175
Glu Ala Cys Val Ala Ala Leu Leu Gly Asn Arg Val Asp Pro Leu Ser
      180      185      190
Glu Glu Gly Trp Lys Gln Lys Pro Asn Leu Asn Ala Ile Arg Ser Leu
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 <213> Homo sapiens

<400> 10798

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| Met | Ala | Leu | Pro | Pro | Gly | Pro | Ala | Ala | Leu | Arg | His | Thr | Leu | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Leu | Pro | Ala | Leu | Leu | Ser | Ser | Gly | Trp | Gly | Glu | Leu | Glu | Pro | Gln | Ile |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Asp | Gly | Gln | Thr | Trp | Ala | Glu | Arg | Ala | Leu | Arg | Glu | Asn | Glu | Arg | His |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Ala | Phe | Thr | Cys | Arg | Val | Ala | Gly | Gly | Pro | Gly | Thr | Pro | Arg | Leu | Ala |
|     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |     |
| Trp | Tyr | Leu | Asp | Gly | Gln | Leu | Gln | Glu | Ala | Ser | Thr | Ser | Arg | Leu | Leu |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Ser | Val | Gly | Gly | Glu | Ala | Phe | Ser | Gly | Gly | Thr | Ser | Thr | Phe | Thr | Val |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Thr | Ala | His | Arg | Ala | Gln | His | Glu | Leu | Asn | Cys | Ser | Leu | Gln | Asp | Pro |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Arg | Ser | Gly | Arg | Ser | Ala | Asn | Ala | Ser | Val | Ile | Leu | Asn | Val | Gln | Phe |

|   |     |     |
|---|-----|-----|
| 115   | 120 | 125 |
| Lys Pro Glu Ile Ala Gln Val Gly Ala Lys Tyr Gln Glu Ala Gln Gly |     |     |
| 130   | 135 | 140 |
| Pro Gly Leu Leu Val Val Leu Phe Ala Leu Val Arg Ala Asn Pro Pro |     |     |
| 145   | 150 | 155 |
| Ala Asn Val Thr Trp Ile Asp Gln Asp Gly Pro Val Thr Val Asn Thr |     |     |
| 165   | 170 | 175 |
| Ser Asp Phe Leu Val Leu Asp Ala Gln Asn Tyr Pro Trp Leu Thr Asn |     |     |
| 180   | 185 | 190 |
| His Thr Val Gln Leu Gln Leu Arg Ser Leu Ala His Asn Leu Ser Val |     |     |
| 195   | 200 | 205 |
| Val Ala Thr Asn Asp Val Gly Val Thr Ser Ala Ser Leu Pro Ala Pro |     |     |
| 210   | 215 | 220 |
| Gly Leu Leu Ala Thr Arg Val Glu Val Pro Leu Leu Gly Ile Val Val |     |     |
| 225   | 230 | 235 |
| Ala Ala Gly Leu Ala Leu Gly Thr Leu Val Gly Phe Ser Thr Leu Val |     |     |
| 245   | 250 | 255 |
| Ala Cys Leu Val Cys Arg Lys Glu Lys Lys Thr Lys Gly Pro Ser Arg |     |     |
| 260   | 265 | 270 |
| His Pro Ser Leu Ile Ser Ser Asp Ser Asn Asn Leu Lys Leu Asn Asn |     |     |
| 275   | 280 | 285 |
| Val Arg Leu Pro Arg Glu Asn Met Ser Leu Pro Ser Asn Leu Gln Leu |     |     |
| 290   | 295 | 300 |
| Asn Asp Leu Thr Pro Asp Ser Arg Ala Val Lys Pro Ala Asp Arg Gln |     |     |
| 305   | 310 | 315 |
| Met Ala Gln Asn Asn Ser Arg Pro Glu Leu Leu Asp Pro Glu Pro Gly |     |     |
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| Gly Leu Leu Thr Ser Gln Gly Arg Arg Asn Gln Asp Lys Asp Ala     |     |     |
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<210> 10799  
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 <212> DNA  
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 aacctaatat gatttttttaa gaaatttata atttcattag agaaatagat gtataaacia 300  
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<210> 10801  
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 <213> Homo sapiens

<400> 10801

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Trp | Gly | Cys | Val | Ala | Ala | Leu | Gly | Ala | Ala | Arg | Gly | Leu | 1   | 5   | 10  | 15  |
| Cys | Trp | Arg | Ala | Ala | Arg | Ala | Ala | Ala | Gly | Leu | Gln | Gly | Arg | Pro | Ala | 20  | 25  | 30  |     |
| Arg | Arg | Cys | Tyr | Ala | Val | Gly | Pro | Ala | Gln | Ser | Pro | Pro | Thr | Phe | Gly | 35  | 40  | 45  |     |
| Phe | Leu | Leu | Asp | Ile | Asp | Gly | Val | Leu | Val | Arg | Gly | His | Arg | Val | Ile | 50  | 55  | 60  |     |
| Pro | Ala | Ala | Leu | Lys | Ala | Phe | Arg | Arg | Leu | Val | Asn | Ser | Gln | Gly | Gln | 65  | 70  | 75  | 80  |
| Leu | Arg | Val | Pro | Val | Phe | Phe | Val | Thr | Asn | Ala | Gly | Asn | Ile | Leu | Gln | 85  | 90  | 95  |     |
| His | Ser | Lys | Ala | Gln | Glu | Leu | Ser | Ala | Leu | Leu | Gly | Cys | Glu | Val | Asp | 100 | 105 | 110 |     |
| Ala | Asp | Gln | Val | Ile | Leu | Ser | His | Ser | Pro | Met | Lys | Leu | Phe | Ser | Glu | 115 | 120 | 125 |     |
| Tyr | His | Glu | Lys | Arg | Met | Leu | Val | Ser | Gly | Gln | Gly | Pro | Val | Met | Glu | 130 | 135 | 140 |     |
| Asn | Ala | Gln | Gly | Leu | Gly | Phe | Arg | Asn | Val | Val | Thr | Val | Asp | Glu | Leu | 145 | 150 | 155 | 160 |
| Arg | Met | Ala | Phe | Pro | Leu | Leu | Asp | Met | Val | Asp | Leu | Glu | Arg | Arg | Leu | 165 | 170 | 175 |     |
| Lys | Thr | Thr | Pro | Leu | Pro | Arg | Asn | Asp | Phe | Pro | Arg | Ile | Glu | Gly | Val | 180 | 185 | 190 |     |
| Leu | Leu | Leu | Gly | Glu | Pro | Val | Arg | Trp | Glu | Thr | Ser | Leu | Gln | Leu | Ile | 195 | 200 | 205 |     |
| Met | Asp | Val | Leu | Leu | Ser | Asn | Gly | Ser | Pro | Gly | Ala | Gly | Leu | Ala | Thr | 210 | 215 | 220 |     |
| Pro | Pro | Tyr | Pro | His | Leu | Pro | Val | Leu | Ala | Ser | Asn | Met | Asp | Leu | Leu | 225 | 230 | 235 | 240 |

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-4275/13211-

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Tyr Glu Gly Leu Met Gly Lys Pro Ser Ile Leu Thr Tyr Gln Tyr Ala  
275 280 285  
Glu Asp Leu Ile Arg Arg Gln Ala Gly Arg Arg Gly Trp Ala Ala Pro  
290 295 300  
Ile Arg Lys Leu Tyr Ala Val Gly Asp Asn Pro Met Ser Asp Val Tyr  
305 310 315 320  
Gly Ala Asn Leu Phe His Gln Tyr Leu Gln Lys Ala Thr His Asp Gly  
325 330 335  
Ala Pro Glu Leu Gly Ala Gly Gly Thr Arg Gln Gln Gln Pro Ser Ala  
340 345 350  
Ser Gln Ser Cys Ile Ser Ile Leu Val Cys Thr Gly Val Tyr Asn Pro  
355 360 365  
Arg Asn Pro Gln Ser Thr Glu Pro Val Leu Gly Gly Gly Glu Pro Pro  
370 375 380  
Phe His Gly His Arg Asp Leu Cys Phe Ser Pro Gly Leu Met Glu Ala  
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Lys Glu Gly Trp Ala Leu Glu  
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<212> DNA  
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<400> 10803

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| Met | Pro | Asn | Thr | Glu | Asn | Val | Tyr | Ser | Gln | Trp | Leu | Ala | Gly | Tyr | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Ser | Arg | Gln | Leu | Lys | Asp | Pro | Phe | Leu | Ser | Phe | Gly | Asp | Ser | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Ser | Pro | Phe | Ala | Ser | Ser | Ser | Glu | His | Ser | Ser | Glu | Asn | Gly | Ser |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Arg | Phe | Ser | Thr | Pro | Pro | Gly | Glu | Leu | Asp | Gly | Gly | Ile | Ser | Gly |
|     |     |     | 50  |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Arg | Ser | Gly | Thr | Gly | Ser | Gly | Gly | Ser | Thr | Pro | His | Ile | Ser | Gly | Pro |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Gly | Pro | Gly | Arg | Pro | Ser | Ser | Lys | Glu | Gly | Arg | Arg | Ser | Asp | Thr | Cys |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Glu | Tyr | Cys | Gly | Lys | Val | Phe | Lys | Asn | Cys | Ser | Asn | Leu | Thr | Val | His |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Arg | Arg | Ser | His | Thr | Gly | Glu | Arg | Pro | Tyr | Lys | Cys | Glu | Leu | Cys | Asn |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Tyr | Ala | Cys | Ala | Gln | Ser | Ser | Lys | Leu | Thr | Arg | His | Met | Lys | Thr | His |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Gly | Gln | Val | Gly | Lys | Asp | Val | Tyr | Lys | Cys | Glu | Ile | Cys | Lys | Met | Pro |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Phe | Ser | Val | Tyr | Ser | Thr | Leu | Glu | Lys | His | Met | Lys | Lys | Trp | His | Ser |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Asp | Arg | Val | Leu | Asn | Asn | Asp | Ile | Lys | Thr | Glu |     |     |     |     |     |  |
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<211> 1806

<212> DNA

<213> Homo sapiens

<400> 10804

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| caagatataa | gagatgcatt | tgcttaacat | ctctacataa | tatttatggg | ctggtcagta | 120  |
| ttggctctgg | cagtattgcc | tggtctgacg | gaaatgtaaa | ctagtaggca | tggtattgat | 180  |
| ctgctaaaa  | taaccctctt | tttaagagga | gatttaagga | agacgtcaat | caaaatgtca | 240  |
| aatatgtgtg | tcagaatata | aataattttt | cacattgtat | tggttgcata | taaaaaaat  | 300  |
| aatagaattg | gttgggtttc | tgaggtgaaa | tccagagtaa | gagtactaga | cagttcaaca | 360  |
| agccacatct | aatggcacag | atagaggatg | tagctatttt | atacctttca | taacatttga | 420  |
| gagtaagata | tccttcagga | tgtgaagtga | ttattaagta | ctcataacct | aaatctgttg | 480  |
| tcaagattag | aactgggggt | catgttaaaa | accttccata | ttacctgagg | gtacctgtgg | 540  |
| ggaacagttc | cttcccctgt | gtggtagtat | tttgttggaa | gagaatgttt | atacgaaaaa | 600  |
| tgaaattctt | ccaacagcag | agaaactcta | aaaagtttga | tagtacctat | caaagtgtct | 660  |
| tacttctgtg | atagagaaca | tctgatgtac | caatttagat | ctatttcttt | atactttttc | 720  |
| taaccaattg | cttaatagta | ctttggatga | ttatcacctt | tgccacttaa | aatatataaa | 780  |
| tatccttttt | acttcatgag | gaaggaggaa | ttttttgatt | actgagttca | gccttttgtg | 840  |
| atgacttata | ttttggactt | acattttaac | tttaaagaat | gtcagatccc | ttctttgtct | 900  |
| tactagttaa | atcctcacct | aatctcttgg | gtatgaatat | aaatgtgtgt | catcgttata | 960  |
| ttgttcagct | agatgagcaa | gtatcttagg | gtagtaggta | gcctgggtgg | tttagaagtg | 1020 |
| tttggtgatt | tttacggaga | gagttttcct | aagtgggtgg | ttataggtgg | tatcagatat | 1080 |
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| ttgatataag | taagattctt | aggagctttt | cttatcacac | aagatgcctg | aatcgaatgt | 1200 |
| gagaattgaa | ggcatttctt | ctgcataaac | aaagaattct | acctgctgga | cagaaacctg | 1260 |
| gaaagtctct | tggaattcgc | tgaattacag | tttagtatgt | cctgattaca | gagtgacaat | 1320 |
| atttatcaag | cctttgttat | attggattat | cttctctctt | aaaatacaac | tgtattataa | 1380 |
| ttgaaatgac | agcccaaaat | tggatggttt | accaaaacca | atgaaaggga | tttcacacat | 1440 |
| caatttttat | ttctgttttg | aagagcacat | gctatataat | aattgctagt | agcaactgca | 1500 |
| gtaaacagg  | tgataagtta | ttttctctga | aaagatccag | tcctagagca | ggattcttcg | 1560 |
| atcattcatg | gcagagtga  | aaaggtttgt | atggttcttg | tccaaataac | tcagttctta | 1620 |
| aaatgcttaa | aatgatcgta | aaccattatc | ctttaaaggt | ttatttgaag | atgctgttaa | 1680 |

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<212> PRT  
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<400> 10806

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| Met | Arg | Ser | Arg | Val | Leu | Trp | Gly | Ala | Ala | Arg | Trp | Leu | Trp | Pro | Arg |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Arg | Ala | Val | Gly | Pro | Ala | Arg | Arg | Pro | Leu | Ser | Ser | Gly | Ser | Pro | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Glu | Glu | Leu | Phe | Thr | Arg | Gly | Gly | Pro | Leu | Arg | Thr | Phe | Leu | Glu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Gln | Ala | Gly | Ser | Glu | Ala | His | Leu | Lys | Val | Arg | Arg | Pro | Glu | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ala | Val | Ile | Lys | Leu | Leu | Asn | Glu | Lys | Glu | Arg | Glu | Leu | Arg | Glu |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Thr | Glu | His | Leu | Leu | His | Gly | Lys | Gly | Arg | Ala | Arg | Gly | Arg | Gly | Val |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Arg | Ala | His | Ser |     |     |     |     |     |     |     |     |     |     |     |     |
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<400> 10807

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| gctggaatta  | caggcttgta | ccaccatgcc | cagctaattg  | tcagattttt  | tttttttgta  | 120  |
| gagggggtct  | tgctgtgttt | ttcccggctg | gtctcaaact  | cccggcotta  | agcagttgtc  | 180  |
| ccgcttcagc  | ctcccaaagt | gctaggatta | cagggtgtgag | ccatcatgcc  | ctgcctaata  | 240  |
| tactggcttt  | aaggaagctt | tcagggtgcc | acactctgtc  | agacttgact  | taattcttct  | 300  |
| aggctttacc  | aacaccccca | accccatggt | tgggggtggg  | gcattacaac  | caggctgtgg  | 360  |
| tcacctctga  | ggcacagggt | tcagccacaa | tgccaccttt  | tccggtgagt  | cagcgagttt  | 420  |
| gtctggaata  | cccctccgta | ggtgagagct | ggggtcctgg  | gctgggacca  | cgatgggccc  | 480  |
| tagcttctca  | ggaagccgaa | gctggccctg | gccagagctg  | tcttgacagc  | ttgagataca  | 540  |
| gatggcttct  | ttccccctcc | cgttttcttt | ttgaaaatgt  | ttttaactcg  | gagcatgtgt  | 600  |
| cggcacggcg  | ttctttccac | gaggacagaa | gctgtcactg  | cacgcagcag  | agacactggt  | 660  |
| tctgatccaa  | agccgattgt | ggcctgcttc | tgggtctaat  | tatttggcag  | gtcagggtgct | 720  |
| ggggtaactgt | ccagggtgta | atcaagactc | aagcatttgg  | gcatgggggt  | gaggaggaac  | 780  |
| catggggagg  | ggaaggaaaa | aggagggggt | gtgtgactta  | gcctgtccag  | accacagagc  | 840  |
| gagtcaatcc  | ccctggaaca | gtggcgtccg | ctgctctgog  | gggaggggtct | gcccattgacc | 900  |
| tggtgtggga  | gccgaggccg | ccaccaactt | gggcgcccag  | cccagaccct  | aggagaggga  | 960  |
| ggagcctgga  | gcagcctttc | cctggcgaga | ttggccacat  | tccattttcc  | tctctgacca  | 1020 |
| gagagccctc  | tcacccctgg | gtgtacaggc | tctttccgct  | aacagaggcc  | ctcctccagc  | 1080 |
| cccattgtcc  | ccactgtgag | accaggagtg | cccctttccc  | agccccaaaa  | aatgagtgcg  | 1140 |
| ctcccattgt  | gaggcacaga | gtgaaagcct | cgtgttttag  | aacggcgggt  | gggaaggact  | 1200 |
| tgatgcgccg  | tgttcttgca | gaaagggcag | ggacgatacc  | gccttgtgct  | ttgcctggca  | 1260 |

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| ctcttggctt | tctcctactg | tccctgccga | tggtgacagc  | cagccagcct | cctggccgca  | 1440 |
| ccattgtacc | gcctctttct | tggtttggtc | ctgggcgttg  | atgtcagatt | tgctttgttc  | 1500 |
| atgtaaaatg | tggtgggatc | atgtctccct | caaatacaat  | tccaacaaaa | atcaaaacaa  | 1560 |
| aacaaatcaa | gcgtctcagt | gaagacagcc | ctgagggttc  | tgttgtctca | gcctgggagc  | 1620 |
| ctgggagcct | ggtcgacctc | acctgctttt | cagattttgc  | catgtttatt | gcagacgtcc  | 1680 |
| ccgtcctggg | gctggccact | catcttcatt | acagggttaat | tctcacaacc | tccagggtgtg | 1740 |
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<210> 10808  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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| ttcgtgttga  | ccggccactc  | tccgtgctct  | ggatgatgtc | ggaacacgac  | ctggccgatg  | 180  |
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| ccgagatgcg  | ggtacgctgc  | gccatcatcc  | cctccgacat | gctgcacatc  | agcaccaact  | 780  |
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| gccagagcct  | ggcgggtcaag | agcttctcgc  | ggagaacgcc | caactcgtcc  | tcctactgcc  | 1080 |
| cttcagagcc  | gatgatgagc  | acccacctc   | ctgccagcga | gctcccgcag  | ccacagccgc  | 1140 |
| agccgcaggc  | cctgcactac  | gcgctggcca  | acgcacagca | ggtgcagatc  | caccagatcg  | 1200 |
| gagaagacgg  | acaggtgcaa  | gtaatcccac  | agggacacct | ccacatcgcc  | cagggtgccgc | 1260 |
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<211> 465

<212> PRT

<213> Homo sapiens

<400> 10809

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 35          40          45
Gln Asp Pro Ser Ile Lys Ser Phe Leu Tyr Ser Ile Asn Gln Thr Ile
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Cys Leu Arg Leu Asp Ser Ile Glu Ala Lys Leu Gln Ala Leu Glu Ala
 65          70          75          80
Thr Cys Lys Ser Leu Glu Glu Arg Leu Asp Leu Val Thr Asn Lys Gln
 85          90          95
His Ser Pro Ile Gln Val Pro Met Val Ala Gly Ser Pro Leu Gly Ala
100          105          110
Thr Gln Thr Cys Asn Ala Val Pro Gly Arg Arg Gln Asn Thr Ile Val
115          120          125
Val Lys Val Pro Gly Gln Glu Asp Ser His His Glu Asp Gly Glu Ser
130          135          140
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145          150          155          160
Gln Ser Ile Gly Ser Asn Val Thr Leu Ile Thr Leu Asn Ser Glu Glu
165          170          175
Asp Tyr Pro Asn Gly Thr Trp Leu Gly Asp Glu Asn Asn Pro Glu Met
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Arg Val Arg Cys Ala Ile Ile Pro Ser Asp Met Leu His Ile Ser Thr
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 50 55 60

09629459.072800

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Val | Val | Pro | Val | Thr | Val | Leu | Ala | Val | Gln | Arg | Tyr | Leu | Leu | Glu | 65  | 70  | 75  | 80  |
| Asp | Glu | Pro | Arg | Asp | Thr | Val | Pro | Lys | Pro | Pro | Leu | Tyr | Cys | Tyr | Asp | 85  | 90  | 95  |     |
| Val | Thr | Ile | Ser | Asp | Gly | Val | Tyr | Gln | Glu | Lys | Cys | Tyr | Leu | Asp | Pro | 100 | 105 | 110 |     |
| Ser | Leu | Asn | Ser | Leu | Val | Tyr | Gln | Asn | Ile | Leu | Lys | Val | Gly | Ile | Gln | 115 | 120 | 125 |     |
| Met | Arg | Ile | Ser | Arg | Val | Ser | Cys | Leu | Tyr | Asn | Glu | Lys | Arg | Ile | Gly | 130 | 135 | 140 |     |
| Gln | Gly | Ile | Leu | Cys | Ile | Asp | Asn | Val | His | Cys | Gly | Glu | Thr | Ser | Asp | 145 | 150 | 155 | 160 |
| Ser | Ile | Ser | Leu | Glu | Thr | Pro | Phe | Arg | Asn | Arg | Ala | His | Gln | Glu | Lys | 165 | 170 | 175 |     |
| Pro | Glu | Arg | Pro | Leu | Arg | Gly | Gly | Lys | Ser | His | Tyr | Leu | Ala | Leu | Trp | 180 | 185 | 190 |     |
| Asn | Asn | Glu | Asp | Pro | Tyr | Gly | Asp | Ile | Trp | Leu | Thr | Asp | Lys | Gln | Pro | 195 | 200 | 205 |     |
| Glu | Glu | His | Asn | Phe | Ser | Asp | Thr | Lys | Ile | Ile | Ser | Leu | Ser | His | Leu | 210 | 215 | 220 |     |
| Glu | Met | Thr | Trp | Thr | Asn | Arg | Arg | Asn | Phe | Pro | Ala | Leu | Leu | Val | Arg | 225 | 230 | 235 | 240 |
| Ile | Leu | His | Lys | Ser | Lys | Leu | Arg | Tyr | Tyr | Gly | Lys | Pro | Asp | Lys | Lys | 245 | 250 | 255 |     |
| Met | Ile | Glu | Pro | Tyr | Gln | Thr | Phe | Leu | Glu | Val | Ala | Asp | Ser | Ser | Gly | 260 | 265 | 270 |     |
| Thr | Val | Ser | Val | Ile | Met | Trp | Asn | Ala | Leu | Cys | Pro | Glu | Trp | Tyr | Lys | 275 | 280 | 285 |     |
| Ser | Leu | Arg | Val | Gly | Leu | Val | Leu | Leu | Gln | Asp | Tyr | Ser | Val | Lys |     | 290 | 295 | 300 |     |
| Lys | Ser | Tyr | Pro | Phe | Arg | Ile | Gln | Pro | Val | Pro | Val | Asp | Pro | Gln | Ile | 305 | 310 | 315 | 320 |
| Lys | Leu | Ile | Ser | Thr | Met | Glu | Ile | Cys | Leu | Asn | Leu | Arg | Asp | Pro | Pro | 325 | 330 | 335 |     |
| Thr | Asn | Ile | Ile | Ile | Ile | Pro | Glu | Lys | Gln | Val | Lys | Pro | Glu | Trp | Arg | 340 | 345 | 350 |     |
| Leu | Pro | Lys | Leu | Asn | His | Arg | Phe | Thr | Thr | Arg | Ser | Glu | Leu | Asp | Asp | 355 | 360 | 365 |     |
| Met | Pro | Glu | Asn | Cys | Ile | Cys | Asp | Val | Ile | Gly | Leu | Leu | Val | Phe | Val | 370 | 375 | 380 |     |
| Gly | Arg | Val | Gln | Arg | Ser | Lys | Lys | Lys | Glu | Asn | Arg | Glu | Asp | Phe | Trp | 385 | 390 | 395 | 400 |
| Ser | Tyr | Arg | Trp | Ile | His | Ile | Ala | Asp | Gly | Thr | Ser | Glu | Gln | Pro | Phe | 405 | 410 | 415 |     |
| Ile | Val | Glu | Leu | Phe | Ser | Thr | Ser | Gln | Pro | Glu | Ile | Phe | Glu | Asn | Ile | 420 | 425 | 430 |     |
| Tyr | Pro | Met | Ala | Tyr | Phe | Val | Cys | Thr | Gln | Leu | Lys | Val | Val | Arg | Asn | 435 | 440 | 445 |     |

009270 69462960

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| Met | Lys | Arg | Ser | Leu | Ile | Cys | Met | Met | Lys | Lys | Arg | Pro | Val | Phe | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Asp | Gln | Val | Pro | Arg | Asn | Glu | Gly | Ser | Ala | Thr | Gln | Lys | Gln | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Leu | Ile | Pro | Glu | Cys | Leu | Arg | Asp | Ser | Tyr | Pro | Arg | Pro | Asp | Gln |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Cys | Tyr | Leu | Tyr | Val | Ile | Gly | Met | Val | Leu | Thr | Thr | Pro | Leu | Pro |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asp | Glu | Leu | Asn | Phe | Arg | Arg | Arg | Lys | Leu | Tyr | Pro | Pro | Glu | Asp | Thr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Thr | Arg | Cys | Phe | Gly | Ile | Leu | Thr | Ala | Lys | Pro | Ile | Pro | Gln | Ile | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Phe | Pro | Val | Tyr | Thr | Arg | Ser | Gly | Glu | Val | Thr | Ile | Ser | Ile | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Lys | Lys | Ser | Gly | Phe | Met | Leu | Ser | Leu | Gln | Met | Leu | Glu | Leu | Ile |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Arg | Leu | His | Gln | Tyr | Ile | Phe | Ser | His | Ile | Leu | Arg | Leu | Glu | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Pro | Ala | Leu | Glu | Phe | Lys | Pro | Thr | Asp | Ala | Asp | Ser | Ala | Tyr | Cys | Val |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Leu | Pro | Leu | Asn | Val | Val | Asn | Asp | Ser | Ser | Thr | Leu | Asp | Ile | Asp | Phe |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Lys | Phe | Met | Glu | Asp | Ile | Glu | Lys | Ser | Glu | Ala | Arg | Ile | Gly | Ile | Pro |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Ser | Thr | Lys | Tyr | Thr | Lys | Glu | Thr | Pro | Phe | Val | Phe | Lys | Leu | Glu | Asp |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Tyr | Gln | Asp | Ala | Val | Ile | Ile | Pro | Arg | Tyr | Arg | Asn | Phe | Asp | Gln | Pro |

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Val Asn Cys Arg Thr Leu Leu Ser Glu Ser Pro Gly Lys Leu His Val  
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<211> 1892

<212> DNA

<213> Homo sapiens

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09629459.072800

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<400> 10816

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| Met | Asp | Leu | Phe | Gly | Asp | Leu | Pro | Glu | Pro | Glu | Arg | Ser | Pro | Arg | Pro |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ala | Ala | Gly | Lys | Glu | Ala | Gln | Lys | Gly | Pro | Leu | Leu | Phe | Asp | Asp | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Pro | Ala | Ser | Ser | Thr | Asp | Ser | Gly | Ser | Gly | Gly | Pro | Leu | Leu | Phe |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Asp | Leu | Pro | Pro | Ala | Ser | Ser | Gly | Asp | Ser | Gly | Ser | Leu | Ala | Thr |
|     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Ser | Met | Ser | Gln | Met | Val | Lys | Thr | Glu | Gly | Lys | Gly | Ala | Lys | Arg | Lys |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |     |
| Thr | Ser | Glu | Glu | Glu | Lys | Asn | Gly | Ser | Glu | Glu | Leu | Val | Glu | Lys | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Val | Cys | Lys | Ala | Ser | Ser | Val | Ile | Phe | Gly | Leu | Lys | Gly | Tyr | Val | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Glu | Arg | Lys | Gly | Glu | Arg | Glu | Glu | Met | Gln | Asp | Ala | His | Val | Ile | Leu |
|     |     | 115 |     |     |     | 120 |     |     |     | 125 |     |     |     |     |     |
| Asn | Asp | Ile | Thr | Glu | Glu | Cys | Arg | Pro | Pro | Ser | Ser | Leu | Ile | Thr | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |
| Val | Ser | Tyr | Phe | Ala | Val | Phe | Asp | Gly | His | Gly | Gly | Ile | Arg | Ala | Ser |
| 145 |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     |     | 160 |



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 Gln Lys Pro Ala Trp Lys Asp Gly Ser Thr Ala Thr Cys Val Leu Ala  
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 Ser Lys Glu His Asn Pro Thr Gln Tyr Glu Glu Arg Met Arg Ile Gln  
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 Lys Ala Gly Gly Asn Val Arg Asp Gly Arg Val Leu Gly Val Leu Glu  
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 Glu Ile Met Ala Gly Trp Thr Ala Asp Asp Ser Asn Leu Asn Thr Ala  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Pro | Phe | Cys | Lys | Ser | Asn | Phe | Leu | Pro | Leu | Leu | Asn | Ile | Glu | Phe | 65  | 70  | 75  | 80  |
| Lys | Asp | Leu | Arg | Gly | Ser | Ala | Ser | Phe | Phe | Leu | Lys | Pro | Ser | Thr | Ser | 85  | 90  | 95  |     |
| Gly | Asp | Ser | Leu | Gln | Ser | Gly | Ser | Ile | Pro | Leu | Ala | Asn | Glu | Ser | Leu | 100 | 105 | 110 |     |
| Glu | His | Lys | Pro | Val | Ser | Ser | Leu | Ala | Glu | Pro | Asp | Leu | Ile | Asn | Phe | 115 | 120 | 125 |     |
| Met | Asp | Phe | Pro | Lys | His | Asn | Gln | Ile | Ile | Thr | Glu | Glu | Thr | Gly | Ser | 130 | 135 | 140 |     |
| Ala | Val | Glu | Pro | Ser | Asp | Glu | Ile | Lys | Arg | Ala | Ser | Gly | Asp | Val | Gln | 145 | 150 | 155 | 160 |
| Thr | Met | Lys | Ile | Ser | Ser | Val | Pro | Asn | Ser | Leu | Ser | Lys | Arg | Asn | Val | 165 | 170 | 175 |     |
| Ser | Leu | Thr | Arg | Ser | His | Ser | Val | Gly | Gly | Pro | Leu | Gln | Asn | Ile | Asp | 180 | 185 | 190 |     |
| Phe | Thr | Gln | Arg | Pro | Phe | Arg | Gly | Ile | Ser | Thr | Val | Ser | Leu | Pro | Asn | 195 | 200 | 205 |     |
| Ser | Leu | Gln | Glu | Val | Val | Asp | Pro | Leu | Gly | Lys | Arg | Pro | Asn | Pro | Pro | 210 | 215 | 220 |     |
| Pro | Val | Ser | Val | Pro | Tyr | Leu | Ser | Pro | Leu | Val | Leu | Arg | Lys | Glu | Leu | 225 | 230 | 235 | 240 |
| Glu | Ser | Leu | Leu | Glu | Asn | Glu | Gly | Asp | Gln | Val | Ile | His | Thr | Ser | Ser | 245 | 250 | 255 |     |
| Phe | Ile | Asn | Gln | His | Pro | Ile | Ile | Phe | Trp | Asn | Leu | Val | Trp | Tyr | Phe | 260 | 265 | 270 |     |
| Arg | Arg | Leu | Asp | Leu | Pro | Ser | Asn | Leu | Pro | Gly | Leu | Ile | Leu | Thr | Ser | 275 | 280 | 285 |     |
| Glu | His | Cys | Asn | Glu | Gly | Val | Gln | Leu | Pro | Leu | Ser | Ser | Leu | Ser | Gln | 290 | 295 | 300 |     |
| Asp | Ser | Lys | Leu | Val | Tyr | Ile | Gln | Leu | Leu | Trp | Asp | Asn | Ile | Asn | Leu | 305 | 310 | 315 | 320 |
| His | Gln | Glu | Pro | Arg | Glu | Pro | Leu | Tyr | Val | Ser | Trp | Arg | Asn | Phe | Asn | 325 | 330 | 335 |     |
| Ser | Glu | Lys | Lys | Ser | Ser | Leu | Leu | Ser | Glu | Glu | Gln | Gln | Glu | Thr | Ser | 340 | 345 | 350 |     |
| Thr | Leu | Val | Glu | Thr | Ile | Arg | Gln | Ser | Ile | Gln | His | Asn | Asn | Val | Leu | 355 | 360 | 365 |     |
| Lys | Pro | Ile | Asn | Leu | Leu | Ser | Gln | Gln | Met | Lys | Pro | Gly | Met | Lys | Arg | 370 | 375 | 380 |     |
| Gln | Arg | Ser | Leu | Tyr | Arg | Glu | Ile | Leu | Phe | Leu | Ser | Leu | Val | Ser | Leu | 385 | 390 | 395 | 400 |
| Gly | Arg | Glu | Asn | Ile | Asp | Ile | Glu | Ala | Phe | Asp | Asn | Glu | Tyr | Gly | Ile | 405 | 410 | 415 |     |
| Ala | Tyr | Asn | Ser | Leu | Ser | Ser | Glu | Ile | Leu | Glu | Arg | Leu | Gln | Lys | Ile | 420 | 425 | 430 |     |
| Asp | Ala | Pro | Pro | Ser | Ala | Ser | Val | Glu | Trp | Cys | Arg | Lys | Cys | Phe | Gly | 435 | 440 | 445 |     |

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<400> 10823

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| Met | Ser | Gly | Arg | Ser | Lys | Arg | Glu | Ser | Arg | Gly | Ser | Thr | Arg | Gly | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Glu | Ser | Glu | Ser | Arg | Gly | Ser | Ser | Gly | Arg | Val | Lys | Arg | Glu | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Arg | Glu | Arg | Glu | Pro | Glu | Ala | Ala | Ser | Ser | Arg | Gly | Ser | Pro | Val |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Val | Lys | Arg | Glu | Phe | Glu | Pro | Ala | Ser | Ala | Arg | Glu | Ala | Pro | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Val | Val | Pro | Phe | Val | Arg | Val | Lys | Arg | Glu | Arg | Glu | Val | Asp | Glu |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Asp | Ser | Glu | Pro | Glu | Arg | Glu | Val | Arg | Ala | Lys | Asn | Gly | Arg | Val | Asp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Glu | Asp | Arg | Arg | Ser | Arg | His | Cys | Pro | Tyr | Leu | Asp | Thr | Ile | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Ser | Val | Leu | Asp | Phe | Asp | Phe | Glu | Lys | Leu | Cys | Ser | Ile | Ser | Leu |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ser | His | Ile | Asn | Ala | Tyr | Ala | Cys | Leu | Val | Cys | Gly | Lys | Tyr | Phe | Gln |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Arg | Gly | Leu | Lys | Ser | His | Ala | Tyr | Ile | His | Ser | Val | Gln | Phe | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| His | His | Val | Phe | Leu | Asn | Leu | His | Thr | Leu | Lys | Phe | Tyr | Cys | Leu | Pro |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Asp | Asn | Tyr | Glu | Ile | Ile | Asp | Ser | Ser | Leu | Glu | Asp | Ile | Thr | Tyr | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Lys | Pro | Thr | Phe | Thr | Lys | Gln | Gln | Ile | Ala | Asn | Leu | Asp | Lys | Gln |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ala | Lys | Leu | Ser | Arg | Ala | Tyr | Asp | Gly | Thr | Thr | Tyr | Leu | Pro | Gly | Ile |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Val | Gly | Leu | Asn | Asn | Ile | Lys | Ala | Asn | Asp | Tyr | Ala | Asn | Ala | Val | Leu |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | Ala | Leu | Ser | Asn | Val | Pro | Pro | Leu | Arg | Asn | Tyr | Phe | Leu | Glu | Glu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asp | Asn | Tyr | Lys | Asn | Ile | Lys | Arg | Pro | Pro | Gly | Asp | Ile | Met | Phe | Leu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Val | Gln | Arg | Ser | Gly | Glu | Pro | Met | Arg | Lys | Leu | Trp | Asn | Pro | Arg |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Asn | Phe | Lys | Ala | His | Ala | Ser | Pro | His | Glu | Met | Leu | Gln | Ala | Val | Val |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Cys | Ser | Lys | Lys | Thr | Phe | Gln | Ile | Thr | Lys | Gln | Gly | Asp | Gly | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |

09629459.072800

Asp Phe Leu Ser Trp Phe Leu Asn Ala Leu His Ser Ala Leu Gly Gly  
325 330 335  
Thr Lys Lys Lys Lys Lys Thr Ile Val Thr Asp Val Phe Gln Gly Ser  
340 345 350  
Met Arg Ile Phe Thr Lys Lys Leu Pro His Pro Asp Leu Pro Ala Glu  
355 360 365  
Glu Lys Glu Gln Leu Leu His Asn Asp Glu Tyr Gln Glu Thr Met Val  
370 375 380  
Glu Ser Thr Phe Met Tyr Leu Thr Leu Asp Leu Pro Thr Ala Pro Leu  
385 390 395 400  
Tyr Lys Asp Glu Lys Glu Gln Leu Ile Ile Pro Gln Val Pro Leu Phe  
405 410 415  
Asn Ile Leu Ala Lys Phe Asn Gly Ile Thr Glu Lys Glu Tyr Lys Thr  
420 425 430  
Tyr Lys Glu Asn Phe Leu Lys Arg Phe Gln Leu Thr Lys Leu Pro Pro  
435 440 445  
Tyr Leu Ile Phe Cys Ile Lys Arg Phe Thr Lys Asn Asn Phe Phe Val  
450 455 460  
Glu Lys Asn Pro Thr Ile Val Asn Phe Pro Ile Thr Gly Gln Ala Asn  
465 470 475 480  
Gly Met Asn Tyr Lys Thr Ser Arg  
485

<210> 10824  
<211> 1445  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (215).. (694)

<400> 10824  
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gctcgaggga ggcactaccg gtgtgtcctc agagttcctc gtgaacaccc tgaatgccgg 120  
ctcggggggc ttgtctgtca ccattgatgg cccctccaag gtgcagctgg actgtcggga 180  
gtgtcctgag ggccatgttg tcaattatac tcccatggcc cctggcaact acctcattgc 240  
catcaagtac ggtggccccc agcacatcgt gggcagcccc ttcaaggcca aggtcactgg 300  
tccgaggctg tccgagggcc acagccttca cgaacatcc acggttcttg tggagactgt 360  
gaccaagtcc tctcaagcc ggggctccag ctacagctcc atccccaaat tctcctcaga 420  
tgccagcaag gtggtgactc ggggcccctg gctgtcccag gccttccttg gccagaagaa 480  
ctccttcacc gtggactgca gcaaagcagg caccaacatg atgatggtg gcgtgcacgg 540  
ccccaagacc ccctgtgagg aggtgtacgt gaagcacatg gggaaccggg tgtacaatgt 600  
cacctacact gtcaaggaga aaggggacta catcctcatt gtcaagtggg gtgacgaaag 660  
tgtccctgga agccccttca aagtcaaggt cccttgaatc ccaaaagtgc ctcccagcc 720  
tcagcccca cctccagcca cacacacatt acacacacac acacacacac acaaatgtgc 780  
cacaccaga cagcacaga atcagacact acaaacacct gccttggggg tgaagtgaag 840



```

gccagcctc cccacccac cgcgcccag gggttggaga accttgtctg tgtcaggaca 900
gtgtccctcc ctgggaatgt gacatgaggg ccgactgggg ccaggctcag gggcagaggc 960
tgggacacaa ggggctggcg agggctgcga ggccagggaa gccctgagtt tctggcgggg 1020
ctgagcagtg ggggagcatt gtgttgtggg tgtctgtgtg tgaggtcacc ctcaaactgc 1080
accgccggcc agataccctc ctgacccoga ggacttggtc tggctctctc ggtggctaca 1140
accccagagt ttttaaggact tggaaaggaa agcacaatca gagaagaaaa cagcccccaa 1200
accagcagga gtggcctggc acatggaccg gcctgagcga tgtgcactcc acccaagcca 1260
ggctcccagg gggcctgatt tctctctcac tgtctctttt tttaaaatgg ttgcacggct 1320
ctgccccatg gggggccttt ttacacact gcgaggccca gctttctagg ggacttttgc 1380
acatgtcatg cagctcagct gggagctgct taggtggaaa actccaaata aagtgcggct 1440
gtcgc 1445

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<210> 10825  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

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<400> 10825
Met Ala Pro Gly Asn Tyr Leu Ile Ala Ile Lys Tyr Gly Gly Pro Gln
 1          5          10          15
His Ile Val Gly Ser Pro Phe Lys Ala Lys Val Thr Gly Pro Arg Leu
          20          25          30
Ser Gly Gly His Ser Leu His Glu Thr Ser Thr Val Leu Val Glu Thr
          35          40          45
Val Thr Lys Ser Ser Ser Ser Arg Gly Ser Ser Tyr Ser Ser Ile Pro
          50          55          60
Lys Phe Ser Ser Asp Ala Ser Lys Val Val Thr Arg Gly Pro Gly Leu
          65          70          75          80
Ser Gln Ala Phe Val Gly Gln Lys Asn Ser Phe Thr Val Asp Cys Ser
          85          90          95
Lys Ala Gly Thr Asn Met Met Met Val Gly Val His Gly Pro Lys Thr
          100          105          110
Pro Cys Glu Glu Val Tyr Val Lys His Met Gly Asn Arg Val Tyr Asn
          115          120          125
Val Thr Tyr Thr Val Lys Glu Lys Gly Asp Tyr Ile Leu Ile Val Lys
          130          135          140
Trp Gly Asp Glu Ser Val Pro Gly Ser Pro Phe Lys Val Lys Val Pro
          145          150          155          160

```

<210> 10826  
 <211> 1501  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS

<222> (220).. (1500)

<400> 10826

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gagaaagaag gctgccgtgg gtaggctggg ggcggagact atcgggaaga gaaaattact 180
tttcccactg aaacacaccc aagtatatgc ccagccttca tgaaagtgaa cagagaaaacg 240
aagcgccctt atgtgggtgg ccttagccag gacatttctg aggcagacct acaaaatcag 300
ttcagcagat ttggagaagt ttccgatgtg gagatcatca cacggaaaaga tgaccaagga 360
aaccacacaga aagtttttgc atatatcaac atcagtgtag cagaagcggg cctgaaaaaa 420
tgtatatctg ttttaataaa aacaaaatgg aaaggtggaa cattacaaat tcaactagca 480
aaagaaagct ttctgcacag atttgcccaa gagagagaag cagcaaaaagc taagaaagaa 540
gaatcaacaa caggtaacgc caacttggtt gaaaagacag gaggagtggg ttcccatatg 600
aaagctgtgc cagggacaga agtgccaggg cataagaatt ggggttgtgag caaatattgga 660
agagtcttac ctgttcttca ccttaaaaat caacataaac gtaaaatcat caaatatgat 720
ccctcaaagt actgccacaa cctgaagaag ataggggagg atttctcaaa caccattcct 780
atatccagcc tgacttgga attagaagga gggaatgacc ctatgagtaa gaaacggcga 840
ggagagtct ctgactttca tggccctccc aagaagataa taaaagtgca gaaggatgag 900
agtccactg ggtctctggc catgagtaca aggccagga gggtaataga gagaccacc 960
ttaacacagc aacaggctgc aaaaaaaga acttgtgatt ccattactcc ttctaaatca 1020
tctcctgtac ctgtttctga tactcagaaa cttaaaaatc taccttttaa gacttctggc 1080
ttggaaactg ccaagaagag aaacagcatt tctgatgatg atactgattc tgaagatgaa 1140
ttgagaatga tgattgcgaa agaggaaaac ttacagagaa ctacacaacc ctcaataaat 1200
gaatctgaaa gtgatccttt tgaagttgta agggatgatt tcaaatcagg cgttcacaaa 1260
ctgcattctt taataggttt aggtatcaaa aatcgtgtct cttgccatga tagtgatgat 1320
gatattatga gaaatgatcg tgagtatgac tcaggagata cagatgaaat tattgcatg 1380
aaaaaaaaatg ttgctaaggt caaaaacagt acagaatttt cacaaatgga aaaatctacg 1440
aagaaaactt ctttcaaaaa tagagaaaac tgtgagcttt ctgatcactg tattaaacta 1500
c                                                                 1501

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<210> 10827

<211> 427

<212> PRT

<213> Homo sapiens

<400> 10827

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Met Lys Val Asn Arg Glu Thr Lys Arg Leu Tyr Val Gly Gly Leu Ser
  1             5             10             15
Gln Asp Ile Ser Glu Ala Asp Leu Gln Asn Gln Phe Ser Arg Phe Gly
          20             25             30
Glu Val Ser Asp Val Glu Ile Ile Thr Arg Lys Asp Asp Gln Gly Asn
          35             40             45
Pro Gln Lys Val Phe Ala Tyr Ile Asn Ile Ser Val Ala Glu Ala Asp
          50             55             60
Leu Lys Lys Cys Ile Ser Val Leu Asn Lys Thr Lys Trp Lys Gly Gly
          65             70             75             80
Thr Leu Gln Ile Gln Leu Ala Lys Glu Ser Phe Leu His Arg Leu Ala

```



<213> Homo sapiens

<220>

<221> CDS

<222> (49).. (855)

<400> 10828

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actctgcaag ctgaactcgc ttgtagacaa acagaagtta aagcattgag taccaggtta 180
gaagaattaa aagatgagtt agtaactcag agacgtaaac atgcctctag tatcaaggat 240
ctcaccaaac aacttcagca agcacgaaga aaattagatc aggttgagag tggaagctat 300
gacaaagaag tcagcagcat gggaagtcgt tctagttcat cagggtccct gaatgctcga 360
agcagtgcag aagatcgatc tccagaaaat actgggtcct cagtagctgt ggataacttt 420
ccacaagtag ataaggccat gttgattgag agaattagtt ggctgcaaaa agcacatgcc 480
cggaaaaatg aaaagataga atttatggag gaccacatca aacaactggg ggaagaaatt 540
aggaaaaaaa caaaaataat tcaaagttat attttacgag aagaatcagg cacactttct 600
tcagaggcat ctgattttta caaagttcat ttaagtagac ggggtggcat catggcatct 660
ttatatacat cccatccagc tgacaatgga ttaacattgg agctctcttt ggaaatcaac 720
cgaaaattac aggctgtttt ggaggatacg ttactaaaaa atattacttt gaaggaaaat 780
ctacaaacac ttggaacaga aatagaacgt cttattaaac accagcatga actagaacag 840
aggacaaaga aaacctaaaa caagcctctt gtcagtaaa gagacaaaag ccacacagga 900
gtaggtgccg ctgacctcta ttgttggaga ctttgttcca ctttttgttt cagccagtaa 960
aaatattgtt ttgcttcacg tgtacacaaa aaaataccct tttacaatat gaatgcattg 1020
ctgtatatac tgtaagactg aaagctttga tgaaatttgt ttttgtatgg tgcaatatga 1080
cagcctgtca ttgaatctaa acaacttaat ttgcttgtat tcataagaag tgttgaacat 1140
tacaagggct tttat                                     1155

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<210> 10829

<211> 269

<212> PRT

<213> Homo sapiens

<400> 10829

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Met Lys Gln Thr Asn Ile Asn Leu Glu Ser Arg Leu Leu Lys Glu Glu
  1             5             10             15
Glu Leu Arg Lys Glu Glu Val Gln Thr Leu Gln Ala Glu Leu Ala Cys
          20             25             30
Arg Gln Thr Glu Val Lys Ala Leu Ser Thr Gln Val Glu Glu Leu Lys
          35             40             45
Asp Glu Leu Val Thr Gln Arg Arg Lys His Ala Ser Ser Ile Lys Asp
          50             55             60
Leu Thr Lys Gln Leu Gln Gln Ala Arg Arg Lys Leu Asp Gln Val Glu
          65             70             75             80
Ser Gly Ser Tyr Asp Lys Glu Val Ser Ser Met Gly Ser Arg Ser Ser
          85             90             95
Ser Ser Gly Ser Leu Asn Ala Arg Ser Ser Ala Glu Asp Arg Ser Pro

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aagagtga aa ctccatctc

1159

<210> 10831

<211> 1318

<212> DNA

<213> Homo sapiens

<400> 10831

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ttctaattgag gacataaagt aggggacactg gaaagaccaa aagagaatgg aaagtactga 60
catggttagtt gcagggtgct agtgagcagt catgccccca aatcagccac cttacataga 120
actccccaag ttcaggggcca ctggatgggg ttgtgacgca gtcaagcagg gccagaaaag 180
catacaagca gttggtttca tctcctgtaa gaaagtggca tcatccctgc tttgtaaacc 240
gagaacctga cacacaccaa gagcactcct agccgtggaa aaaagccgct agaaccggag 300
gttagtctga tttttggttc ctctgaaaat tagcttttgc tggatgctag attcagttct 360
ggacttactg agtagtctct ggggttttga cattgttagg cactgtggga aaattataac 420
aggtacgtct gcgctgagtt gcttgctaatt tcctaggaga gacttggaca ttttggacaa 480
ttaagaagca atacaggcca ggcacgggtg ctcacgtctg taatcccagc actttgggag 540
gctgaggcgg gtggctcctc tgaggtcagg agttcgagac cagcctgacc agcatgggtga 600
aaccocatct ctactaaaaa tacaaaatta gccaggcgtg gtggcacatg cctgtaataa 660
tcccagctac tcgggaggct gaggcaggag aattgcttga actggggagg caaaggatgc 720
agtgatccga gatcacgcca ttgcaactcca gcctgggcaa caagagtga attctgtctc 780
aaaaaaacaa acaaacaaaa agaagcaata cagctctttg agaaagatgc agtcataagt 840
ggtgcagagt tgcagtctgc ccattcctgc tcctcactca tcgctgttcc gaacaagtca 900
gccaggaagc cgcactgcac caaggctttt aaagatacca gaaaacacct gtgaagctgg 960
aggtgaccat tcaccaaatt cgaatccctc taatgatccg cagcgtaaaa tccctggaga 1020
aggtgtgtgc tgactggatt cagaggagga aaggaaaaga atgtctaagt gaagggacca 1080
gtttgaatgc ctgccaaagac tttgagaatc actataagaa aatctccttg tgggtgaagg 1140
tcagagacat gggatcgttt ccagatgaga atccacaagc taccactga cttgcacagt 1200
ccttctgaga ttgttaagca gttgacttcc atcagtgttg agccaggaat tgaggtggaa 1260
gtcaccattg cagatgctca aagtcaacta ttttaataaa ctgattagcg gttgttat 1318

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<210> 10832

<211> 1729

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (276).. (1052)

<400> 10832

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gcagcgcttg gagcatgagc cgggtggttg cgtgcacgga ggatcgcggg aggctgccgc 60
ctcgggacac ccactcaca cagggcaaaa ggatgtatac actccatctt catttaaaac 120
actggaggat tggaaaggag aaaaggaaca ggacagaaaa aaaaacagag tgttctgaac 180
atcaacacaa agtggaaagaa ccttaagctg aaggtacagt atattattta cactgaaggg 240
gcttgtgtgt ggacaagaaa gcgctgacag ctcaaattga tcccatggaa ctgagaaatg 300

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tcaacatcga accagatgat gagagcagca gtggagaaag tgctccagat agctacatcg 360
ggataagaaa ttcagaaaag gcagcaatga gcagtcaatt tgctaataaa gacactgaaa 420
gtcagaaaatt cctgacaaat ggatttttgg ggaaaaagaa gctggcagat tatgctgatg 480
aacaccatcc cggaacgact tccttttgaa tgtcttcatt taacctgagt aatgccatca 540
tgggcagtgg gatcctgggc ttgtcctatg ccatggccaa cacagggatc atacttttta 600
taatcatgct gcttgctgtg gcaatattat cactgtattc agttcacctt ttattaaaaa 660
cagccaagga aggagggtct ttgatttatg aaaaattagg agaaaaggca tttggatggc 720
cgggaaaaat tggagctttt gtttccatta caatgcagaa cattggagca atgtcaagct 780
acctctttat cattaaatat gaactacctg aagtaatcag agcattcatg ggacttgaag 840
aaaatactgg agaattgtac ctcaatggca actacctcat catatttggt tctgttggaa 900
ttattcttcc actttcgctc cttaaaaatt taggttatct tggctatacc agtggatttt 960
ctcttacctg catggtgttt tttgttagtg tggatgctca caagaaaata agtttctttt 1020
tgcaaatttt tatcatacta aagttgttct tttaattag catatctaaa ataggaatta 1080
gttcagttta gtcacacag gtgtttgctg acattcattg gccatttaat acagtgttga 1140
gtggttctcc gtaaaagtat aagtgtctaac actacgaaga aatgcacacg atcattcttg 1200
ctcacttcta taacaaactt acataaaatg gatttaaaaa ttctactca cagcctaaaa 1260
cttctggagt tcactacctt tttttcaaat catagtaaga tcacttgtgt attttatatt 1320
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gaaaaaaatc tgccaaatag catcttttagg atatattttac attttcactc atctaaaaag 1440
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ccaaataata aagcaccatt tttttcttca taaccaggat taaaattcat atatactgca 1560
gggcagacat acatatgata gcttgtgctg attaatttta cccattttgt aaacagatga 1620
aaattttatt ttcttatttc atttataaga tggctcaatg tattgggagg cttctttttt 1680
attacagaaa gtgtatatgt gtatataata aatgaacttt tcaaatgac 1729

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<210> 10833  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<400> 10833

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Met Asp Pro Met Glu Leu Arg Asn Val Asn Ile Glu Pro Asp Asp Glu
 1          5          10          15
Ser Ser Ser Gly Glu Ser Ala Pro Asp Ser Tyr Ile Gly Ile Arg Asn
          20          25          30
Ser Glu Lys Ala Ala Met Ser Ser Gln Phe Ala Asn Glu Asp Thr Glu
          35          40          45
Ser Gln Lys Phe Leu Thr Asn Gly Phe Leu Gly Lys Lys Lys Leu Ala
          50          55          60
Asp Tyr Ala Asp Glu His His Pro Gly Thr Thr Ser Phe Gly Met Ser
          65          70          75          80
Ser Phe Asn Leu Ser Asn Ala Ile Met Gly Ser Gly Ile Leu Gly Leu
          85          90          95
Ser Tyr Ala Met Ala Asn Thr Gly Ile Ile Leu Phe Ile Ile Met Leu
          100          105          110
Leu Ala Val Ala Ile Leu Ser Leu Tyr Ser Val His Leu Leu Leu Lys
          115          120          125

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0002240" 69462966

Thr Ala Lys Glu Gly Gly Ser Leu Ile Tyr Glu Lys Leu Gly Glu Lys  
 130 135 140  
 Ala Phe Gly Trp Pro Gly Lys Ile Gly Ala Phe Val Ser Ile Thr Met  
 145 150 155 160  
 Gln Asn Ile Gly Ala Met Ser Ser Tyr Leu Phe Ile Ile Lys Tyr Glu  
 165 170 175  
 Leu Pro Glu Val Ile Arg Ala Phe Met Gly Leu Glu Glu Asn Thr Gly  
 180 185 190  
 Glu Trp Tyr Leu Asn Gly Asn Tyr Leu Ile Ile Phe Val Ser Val Gly  
 195 200 205  
 Ile Ile Leu Pro Leu Ser Leu Leu Lys Asn Leu Gly Tyr Leu Gly Tyr  
 210 215 220  
 Thr Ser Gly Phe Ser Leu Thr Cys Met Val Phe Phe Val Ser Val Val  
 225 230 235 240  
 Ile Tyr Lys Lys Ile Ser Phe Phe Leu Gln Ile Phe Ile Ile Leu Lys  
 245 250 255  
 Leu Phe Phe

<210> 10834  
 <211> 1648  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (234).. (1241)

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 atctgtgctc agtgggtgcag gaatgcattt tccttggctt caaacatacg tagaaactgt 180  
 ggattatttg gaagctcgga agtgaaattc tattttatca tcccaaaagc aacatggaga 240  
 gtttcaatac ttttgctaac cggatgaaaa atattggcgt catgaattat ttaaagatct 300  
 ccttacaaca tgcattatac cttctgcac atggaatgct taaagatgct aagagaaatc 360  
 tgagtgaggc agagacatgg agacatgggtg aaaatacgtc ttcccgggaa atattaatca 420  
 acctatttca ggcctataaa gggctttttac agtattatac ctggtctgaa aagaagatgg 480  
 aattgtcaaa gcttgataag gatgattatg cttacaatgc agtagcccag gatgtgttca 540  
 accacagctg gaagacatct gcaaataattt ctgcattgat taaaattcct ggagtttggg 600  
 acccttttgt gaagagttat gtagaaatgc tggaattcta tggggatcga gatggagccc 660  
 aagaggtact caccaattat gcatatgatg aaaagtttcc atcaaatcca aatgcccata 720  
 tctacttata caactttcta aagagacaga aggcaccaag atcaaaattg ataagtgtgc 780  
 ttaagatttt gtatcagatt gtaccatctc ataaattgat gttggaattc catacattac 840  
 ttagaaaatc agaaaaagaa gaacaccgta aactgggggtt ggaggtatta tttggagtct 900  
 tagattttgc cggatgcact aagaatataa ctgcttggaa ataacttggca aaatatctga 960  
 aaaatatctt aatgggaaac caccttgcgt gggttcaaga agagtggaaac tccaggaaaa 1020  
 actggtggcc aggctttcat ttcagctact tttgggcaaa aagtgattgg aaggaagata 1080

09629469.072800



cagctttggc ctgtgagaaa gcttttgtgg ctggtttact gttaggaaaa ggttgtagat 1140  
 atttccggtg tatttttaaag caagatcacc aaatcttagg gaagaaaatt aagcggatga 1200  
 agagatctgt gaaaaaatac agtattgtaa atccaagact ctgatactga attttagtta 1260  
 tttcacagtt gtagctacac agtataccac catgaagaaa tatattgggtg atgagttcta 1320  
 ttgaggaatt ttgaaaagag agaaggattt agaaaaaaga ctctttctcg gccgggcgca 1380  
 gtggctcaca cttctaattcc cagcacttgg gaggcgagg tgggtggatc atgaggtcag 1440  
 gagttcaaga ccagcctggc caacacagtg aaaccctgtc tctactaaaa atacaaaaag 1500  
 tagctgggcg cagtggcggg catttgtaat ccagatact cgggaggctg aagcaggaga 1560  
 attgcttgaa cccgggaggt ggaggttgca gtgagcagag attgcaccac cgtactcctg 1620  
 cctgggcgac agaactagac tctgtctc 1648

<210> 10835  
 <211> 336  
 <212> PRT  
 <213> Homo sapiens

<400> 10835  
 Met Glu Ser Phe Asn Thr Phe Ala Asn Arg Met Lys Asn Ile Gly Val  
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 20 25 30  
 His Gly Met Leu Lys Asp Ala Lys Arg Asn Leu Ser Glu Ala Glu Thr  
 35 40 45  
 Trp Arg His Gly Glu Asn Thr Ser Ser Arg Glu Ile Leu Ile Asn Leu  
 50 55 60  
 Ile Gln Ala Tyr Lys Gly Leu Leu Gln Tyr Tyr Thr Trp Ser Glu Lys  
 65 70 75 80  
 Lys Met Glu Leu Ser Lys Leu Asp Lys Asp Asp Tyr Ala Tyr Asn Ala  
 85 90 95  
 Val Ala Gln Asp Val Phe Asn His Ser Trp Lys Thr Ser Ala Asn Ile  
 100 105 110  
 Ser Ala Leu Ile Lys Ile Pro Gly Val Trp Asp Pro Phe Val Lys Ser  
 115 120 125  
 Tyr Val Glu Met Leu Glu Phe Tyr Gly Asp Arg Asp Gly Ala Gln Glu  
 130 135 140  
 Val Leu Thr Asn Tyr Ala Tyr Asp Glu Lys Phe Pro Ser Asn Pro Asn  
 145 150 155 160  
 Ala His Ile Tyr Leu Tyr Asn Phe Leu Lys Arg Gln Lys Ala Pro Arg  
 165 170 175  
 Ser Lys Leu Ile Ser Val Leu Lys Ile Leu Tyr Gln Ile Val Pro Ser  
 180 185 190  
 His Lys Leu Met Leu Glu Phe His Thr Leu Leu Arg Lys Ser Glu Lys  
 195 200 205  
 Glu Glu His Arg Lys Leu Gly Leu Glu Val Leu Phe Gly Val Leu Asp  
 210 215 220  
 Phe Ala Gly Cys Thr Lys Asn Ile Thr Ala Trp Lys Tyr Leu Ala Lys  
 225 230 235 240

09629469.072300

Tyr Leu Lys Asn Ile Leu Met Gly Asn His Leu Ala Trp Val Gln Glu  
245 250 255  
Glu Trp Asn Ser Arg Lys Asn Trp Trp Pro Gly Phe His Phe Ser Tyr  
260 265 270  
Phe Trp Ala Lys Ser Asp Trp Lys Glu Asp Thr Ala Leu Ala Cys Glu  
275 280 285  
Lys Ala Phe Val Ala Gly Leu Leu Leu Gly Lys Gly Cys Arg Tyr Phe  
290 295 300  
Arg Tyr Ile Leu Lys Gln Asp His Gln Ile Leu Gly Lys Lys Ile Lys  
305 310 315 320  
Arg Met Lys Arg Ser Val Lys Lys Tyr Ser Ile Val Asn Pro Arg Leu  
325 330 335

<210> 10836  
<211> 2222  
<212> DNA  
<213> Homo sapiens

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<400> 10837

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| Met | Ala | Ser | Ala | Gly | Val | Ala | Ala | Gly | Arg | Gln | Ala | Glu | Asp | Val | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro | Pro | Thr | Ser | Asp | Gln | Pro | Leu | Pro | Asp | Thr | Lys | Pro | Leu | Pro | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Gln | Pro | Pro | Pro | Val | Pro | Ala | Pro | Gln | Pro | Gln | Gln | Ser | Pro | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Arg | Pro | Gln | Ser | Pro | Ala | Arg | Ala | Arg | Glu | Glu | Glu | Asn | Tyr | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Phe | Leu | Pro | Leu | Val | His | Asn | Ile | Ile | Lys | Cys | Met | Asp | Lys | Asp | Ser |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Pro | Glu | Val | His | Gln | Asp | Leu | Asn | Ala | Leu | Lys | Ser | Lys | Phe | Gln | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Met | Arg | Lys | Leu | Ile | Ser | Thr | Met | Pro | Gly | Ile | His | Leu | Ser | Pro | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Gln | Gln | Gln | Gln | Leu | Gln | Ser | Leu | Arg | Glu | Gln | Val | Arg | Thr | Lys |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asn | Glu | Leu | Leu | Gln | Lys | Tyr | Lys | Ser | Leu | Cys | Met | Phe | Glu | Ile | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Glu |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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<400> 10838

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<400> 10839

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Gly Lys Ser Phe Asp Lys Thr Gln His Arg Phe Met Leu Lys Met Leu
             35             40             45
Asn Lys Leu Ser Ile Glu Ala Thr Tyr Leu Lys Ile Ile Arg Ala Ile
             50             55             60
Cys Glu Lys Ser Arg Ala Asp Ile Ile Leu Asn Gly Gln Lys Leu Glu
             65             70             75             80
Ala Tyr Pro Leu Lys Thr Ser Arg Trp Gln Gly Cys Pro Leu Ser Thr

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| Met | His | Thr | His | Ser | Leu | Phe | Thr | Leu | Leu | Gly | Glu | Arg | Leu | Met | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| His | Thr | Asn | Thr | Val | Thr | Val | Thr | Thr | Tyr | Asn | Thr | Leu | Tyr | Glu | Ile |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Thr | Glu | Gln | Val | Cys | Thr | Gln | Val | Val | His | Lys | Pro | His | Pro | Glu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Asp | Ser | Thr | Val | Lys | Ile | Gln | Asn | Pro | Met | Ile | Leu | Lys | Val | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Thr | Leu | Leu | Lys | Asn | Ser | Thr | Pro | Ser | Ala | Glu | Leu | Met | Glu | Val |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Arg | Arg | Leu | Phe | Leu | Ser | Asp | Met | Ile | Lys | Leu | Phe | Ser | Asn | Ser | Arg |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Asn | Arg | Arg | Cys | Leu | Leu | Gln | Cys | Ser | Val | Trp | Gln | Asp | Trp | Met |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Phe | Ser | Leu | Gly | Tyr | Ile | Asn | Pro | Lys | Asn | Ser | Glu | Glu | Gln | Lys | Ile |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Thr | Glu | Met | Val | Tyr | Asn | Ile | Phe | Arg | Ile | Leu | Leu | Tyr | His | Ala | Ile |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Tyr | Glu | Trp | Gly | Gly | Trp | Arg | Val | Trp | Val | Asp | Thr | Leu | Ser | Ile |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Ala | His | Ser | Lys | Val | Thr | Tyr | Glu | Ala | His | Lys | Glu | Tyr | Leu | Ala | Lys |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Met | Tyr | Glu | Glu | Tyr | Gln | Arg | Gln | Glu | Glu | Glu | Asn | Ile | Lys | Lys | Gly |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Lys | Lys | Gly | Asn | Val | Ser | Thr | Ile | Ser | Gly | Leu | Ser | Ser | Gln | Thr | Thr |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |     |     |     |     |
| Gly | Ala | Lys | Gly | Gly | Met | Glu | Ile | Arg | Glu | Ile | Glu | Asp | Leu | Ser | Gln |
| 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |     |     |
| Ser | Gln | Ser | Pro | Glu | Ser | Glu | Thr | Asp | Tyr | Pro | Val | Ser | Thr | Asp | Thr |
| 225 |     |     |     | 230 |     |     |     | 235 |     |     |     | 240 |     |     |     |
| Arg | Asp | Leu | Leu | Met | Ser | Thr | Lys | Val | Ser | Asp | Asp | Ile | Leu | Gly | Asn |
| 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |     |     |     |     |
| Ser | Asp | Arg | Pro | Gly | Ser | Gly | Val | His | Val | Glu | Val | His | Asp | Leu | Leu |
| 260 |     |     |     | 265 |     |     |     | 270 |     |     |     |     |     |     |     |
| Val | Asp | Ile | Lys | Ala | Glu | Lys | Val | Glu | Ala | Thr | Glu | Val | Lys | Leu | Asp |
| 275 |     |     |     | 280 |     |     |     | 285 |     |     |     |     |     |     |     |
| Asp | Met | Asp | Leu | Ser | Pro | Glu | Thr | Leu | Val | Gly | Gly | Glu | Asn | Gly | Ala |
| 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |     |     |
| Leu | Val | Glu | Val | Glu | Ser | Leu | Leu | Asp | Asn | Val | Tyr | Ser | Ala | Ala | Val |
| 305 |     |     |     | 310 |     |     |     | 315 |     |     |     | 320 |     |     |     |
| Glu | Lys | Leu | Gln | Asn | Asn | Val | His | Gly | Ser | Val | Gly | Ile | Ile |     |     |
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<400> 10844

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| cttttatttt  | tatgtattaa | tgagaataat | aggtataggc | catatactta | ttagagactc | 120  |
| tcaatgactt  | atacttatta | ttctcaattc | atattatata | atattatact | cattgaaaat | 180  |
| aagccatata  | cttattagag | acttatttag | agtcttatta | gagacttatt | aagagtctct | 240  |
| aataagtata  | tgggttgta  | agctagacac | aaaatagtag | catctctctc | cacctctcta | 300  |
| aagaggacca  | catcatctcc | aaatgtaaat | agacaagaac | aaaaaaaaat | gtgcatttac | 360  |
| taggcaattg  | aatgttctcc | aaaccaatat | tcctttgaac | aaaatgagtt | tgtttgattt | 420  |
| gagaacaatg  | aagtatttgg | ctattttata | atcataagtg | attcataccc | ccacacactt | 480  |
| agccctctag  | aaatggtgcc | agaagatgaa | acacatttaa | ttttgccata | tagaagcatt | 540  |
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| aaaatatcag  | aaaaagtaca | accttttaaa | ttatgtagtt | gcttcttctt | cataatcatt | 660  |
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| acatgatatg  | ggaaggaggc | tgtgcacaga | gtatgaccac | tggattgcct | aaattgacat | 1020 |
| tgggtaggag  | tggagtattg | gtgatcttca | gatgaagcaa | gagtaatgct | caatgtgacc | 1080 |
| tgggttaaaca | agtctcctga | atccaggggt | taaagatgga | gaggaggaag | agagggagtc | 1140 |
| aagaagggtca | aagggagcgt | ctgtctccct | gacctgaatg | acaactaaca | tagcccttgt | 1200 |
| ttccttcttg  | gtccccagga | gggagagaga | ggcagctgtg | tgggatcaag | gcattttgtg | 1260 |
| agattgcagc  | tgtgattcat | tttcctttgg | aagaacatcc | ctagctccag | gggatattgt | 1320 |
| gggaattggt  | tagctaaaat | atcaattccc | tgggtaaaag | aggaaaacca | ttagaccctc | 1380 |



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130 135 140  
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Pro Gln Asp Leu Ile Arg Leu Tyr Asp Ile Ile Leu Gln Asn Leu Val  
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210 215 220  
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245 250 255  
Ile Thr Gln Val Arg Ser Glu Lys Cys Ser Leu Gln Ala Ala Ala Ile  
260 265 270  
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275 280 285  
Lys Asp Asn Lys Pro Leu Val Glu Arg Phe Glu Ser Thr Pro Gly Thr  
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<211> 1809

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (416).. (1174)

<400> 10847

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 Leu Val Pro Gly Phe Ser Ala Ala Glu Lys Pro Thr Ala Gln Gly Ser  
 35 40 45  
 Asn Lys Thr Glu Val Gly Gly Gly Ile Leu Lys Ser Lys Thr Phe Ser  
 50 55 60  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     | 70  |     | 75  |     | 80  |     |     |     |     |     |     |     |     |     |
| Ile | Cys | Leu | Ser | Ile | Arg | Asp | Lys | Arg | Lys | Gln | Arg | Gln | Gly | Glu | Asp |
|     |     | 85  |     | 90  |     | 95  |     |     |     |     |     |     |     |     |     |
| Leu | Ala | His | Val | Gln | His | Pro | Thr | Gly | Ala | Gly | Pro | His | Ala | Gln | Glu |
|     |     | 100 |     | 105 |     | 110 |     |     |     |     |     |     |     |     |     |
| Glu | Asp | Ser | Gln | Glu | Glu | Glu | Glu | Glu | Asp | Glu | Glu | Ala | Ala | Ser | Arg |
|     |     | 115 |     | 120 |     | 125 |     |     |     |     |     |     |     |     |     |
| Tyr | Tyr | Val | Pro | Ser | Tyr | Glu | Glu | Val | Met | Asn | Thr | Asn | Tyr | Ser | Glu |
|     |     | 130 |     | 135 |     | 140 |     |     |     |     |     |     |     |     |     |
| Ala | Arg | Gly | Glu | Glu | Gln | Asn | Pro | Arg | Leu | Ser | Ile | Ser | Leu | Pro | Ser |
| 145 |     |     |     | 150 |     | 155 |     |     |     |     |     |     |     |     | 160 |
| Tyr | Glu | Ser | Leu | Thr | Gly | Leu | Asp | Glu | Thr | Thr | Pro | Thr | Ser | Thr | Arg |
|     |     | 165 |     | 170 |     | 175 |     |     |     |     |     |     |     |     |     |
| Ala | Asp | Val | Glu | Ala | Ser | Pro | Gly | Asn | Pro | Pro | Asp | Arg | Gln | Asn | Ser |
|     |     | 180 |     | 185 |     | 190 |     |     |     |     |     |     |     |     |     |
| Lys | Leu | Ala | Lys | Arg | Leu | Lys | Pro | Leu | Lys | Val | Arg | Arg | Ile | Lys | Ser |
|     |     | 195 |     | 200 |     | 205 |     |     |     |     |     |     |     |     |     |
| Glu | Lys | Leu | His | Leu | Lys | Asp | Phe | Arg | Ile | Asn | Leu | Pro | Asp | Lys | Asn |
|     |     | 210 |     | 215 |     | 220 |     |     |     |     |     |     |     |     |     |
| Val | Pro | Pro | Pro | Ser | Ile | Glu | Pro | Leu | Thr | Pro | Pro | Pro | Gln | Tyr | Asp |
| 225 |     |     |     | 230 |     | 235 |     |     |     |     |     |     |     |     | 240 |
| Glu | Val | Gln | Glu | Lys | Ala | Pro | Asp | Thr | Arg | Pro | Pro | Asp |     |     |     |
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|        |        |            |            |            |             |            |            |      |
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| cacat  | ggcgg  | ggacattgac | cccactccag | accacactcc | catctccata  | cataggatag | 1140       |      |
| aaact  | gttca  | tcaggaagga | aaaccaaaca | gaaatttgtg | gtctagggga  | ggggtctgca | 1200       |      |
| ttcag  | catgg  | ccatgctggg | ctggagtggo | tgtgggggtg | ccagatagat  | gggcatgtag | 1260       |      |
| actagt | gctt   | tctcaacctt | taatgcatgc | acaaatcatt | gagatcttgt  | taaaatgtag | 1320       |      |
| atcct  | gggtg  | ggcacggtgg | ctcacgcctg | taatcccagc | actttgggag  | gctgaggcgg | 1380       |      |
| gcggat | catg   | aggtcaggag | atcgagacca | tcctggctaa | cacgggtgaaa | ccctgtctct | 1440       |      |
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<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (166).. (597)

<400> 10850

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| agtcatt | aac     | accta  | ataga   | tgatatt | tttag   | tgtgtgtgt  | gtgtgg  | ccgt   | caccgc  | ccgtc | 120  |
| agtcatt | caact   | ctgctt | tctt    | cctga   | actgt   | gttgtttcgg | accccat | ggg    | tgagc   | agtct | 180  |
| gaggg   | aatgg   | ctccc  | gtgtc   | ttcat   | ctacg   | gtcagttctg | taacg   | aaaac  | ttctg   | ggcag | 240  |
| cagca   | agtgt   | gtgtg  | agcca   | ggccac  | ccgtg   | ggaacctgca | aggct   | gccac  | ccccac  | ccgtc | 300  |
| gtcag   | cacca   | cgtccc | ctcgt   | gcctac  | acca    | aaccccatct | ctggg   | aaaagc | cacagt  | atcc  | 360  |
| ggtg    | agttgc  | attgtg | atata   | tatttt  | ctctc   | tcttttctct | cattg   | ggcgtg | gaatatt | tttt  | 420  |
| gtttg   | tttgt   | ttgag  | atagc   | gtctc   | actct   | gtcgc      | ccaag   | ctag   | agtgc   | aatc  | 480  |
| ctcg    | actcac  | tgca   | acctct  | gcctt   | ccagg   | ctcaag     | ccat    | cctccc | acct    | cagc  | 540  |
| attat   | caggg   | accac  | aggca   | catgt   | cacca   | caccag     | cta     | attttt | ttgtg   | tttag | 600  |
| agatg   | gggtt   | tcacc  | acgtt   | gccag   | gctg    | gtgtt      | gaact   | cctc   | agg     | tca   | 660  |
| ccac    | ctcagc  | ctccc  | aaagt   | gctgg   | gatta   | caggc      | gtgag   | ccact  | gtgcc   | cagc  | 720  |
| tttgg   | agggt   | ctta   | agcaat  | atttt   | gtatg   | gtaa       | attgtt  | aaa    | agta    | aatt  | 780  |
| cattt   | ctga    | acagt  | tgtctt  | tttag   | atgaa   | ttatttt    | gtt     | ttaaa  | atcta   | cgtat | 840  |
| tttgt   | ctgag   | acttta | aaatt   | atcatt  | tigaa   | agttact    | att     | tga    | attttt  | aatga | 900  |
| taa     | acctta  | gccac  | gcaga   | accct   | actgg   | gtatttt    | tagc    | tttttt | tata    | acgta | 960  |
| gggg    | agagcc  | aagag  | tttgc   | tttc    | cttaaa  | gtacta     | aat     | cttttt | tcct    | ataat | 1020 |
| tcga    | atagaa  | ttc    | actataa | aatgt   | tatacc  | tttctt     | tgtct   | tttata | aaagt   | atata | 1080 |
| tat     | cttagcc | ttgtt  | gactc   | caagt   | cataa   | ttttta     | acat    | tagt   | tattat  | cttgg | 1140 |
| gtag    | agtga   | tagg   | ctggag  | atcc    | agtaag  | agctat     | gggtg   | tcttt  | gtgcc   | tgc   | 1200 |
| ggc     | ctcagaa | aagt   | gtacct  | tttgt   | tttctg  | agta       | acagag  | agc    | acacatc | ctgag | 1260 |
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| acct    | acttca  | taagg  | tttag   | agg     | tttaaat | gag        | ttt     | gtaa   | tatat   | cagtg | 1380 |
| tgt     | ctgggtg | gtagt  | ggcca   | ttat    | ataaac  | aattg      | ccact   | gcc    | attat   | ca    | 1440 |
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Gly Trp Asn Ile Phe Val Cys Leu Phe Glu Ile Ala Ser His Ser Val  
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Ala Gln Ala Arg Val Gln Tyr His Asn Leu Asp Ser Leu Gln Pro Leu  
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<212> DNA  
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<400> 10853

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| Met | Glu | Leu | Ile | Lys | Asp | Gln | Tyr | Gln | Lys | Lys | Asn | Tyr | Glu | Gln | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Ser | Ile | Gln | Arg | Phe | Val | Cys | Glu | Met | Thr | Asn | Leu | Gln | Lys | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
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|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Gln | Glu | Leu | His | Leu | Glu | Ala | Glu | Arg | Lys | Ile | Arg | Gln | Glu | Leu |
|     |     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |
| Glu | Asn | Arg | Cys | Gln | Glu | Leu | Glu | Glu | Thr | Val | Arg | His | Leu | Lys | Lys |
|     |     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Cys | Lys | Glu | Ala | Thr | Glu | Asn | Thr | Leu | Lys | Glu | Ala | Ser | Val | Glu | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Gln | Ile | Thr | Ala | Asn | Leu | Glu | Glu | Ala | His | Arg | Trp | Phe | Lys | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Phe | Asp | Gly | Leu | Gln | Leu | Glu | Leu | Thr | Lys | Asn | Arg | Leu | Gln | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Pro | Ser | Gly | Glu | Asp | Arg | Trp | Gln | Glu | Lys | Asp | Gln | Asp | Val | Lys | His |
|     |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |
| Asp | Val | Met | Ser | Leu | Thr | Arg | Glu | Leu | Leu | Tyr | Val |     |     |     |     |
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<212> DNA  
<213> Homo sapiens

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<400> 10854

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Leu Ile Phe Asp Arg Gly Ser Ile Cys Lys Phe Ile Cys Trp Trp Val  
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 <213> Homo sapiens

<400> 10857

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Gly | Asn | Gly | Pro | Ala | Ala | Val | His | Tyr | Gln | Pro | Ala | Ser | Pro | 1   | 5   | 10  | 15  |
| Pro | Arg | Asp | Ala | Cys | Val | Tyr | Ser | Ser | Cys | Tyr | Cys | Glu | Glu | Asn | Ile | 20  | 25  | 30  |     |
| Trp | Lys | Leu | Cys | Glu | Tyr | Ile | Lys | Asn | His | Asp | Gln | Tyr | Pro | Leu | Glu | 35  | 40  | 45  |     |
| Glu | Cys | Tyr | Ala | Val | Phe | Ile | Ser | Asn | Glu | Arg | Lys | Met | Ile | Pro | Ile | 50  | 55  | 60  |     |
| Trp | Lys | Gln | Gln | Ala | Arg | Pro | Gly | Asp | Gly | Pro | Val | Ile | Trp | Asp | Tyr | 65  | 70  | 75  | 80  |
| His | Val | Val | Leu | Leu | His | Val | Ser | Ser | Gly | Gly | Gln | Asn | Phe | Ile | Tyr | 85  | 90  | 95  |     |
| Asp | Leu | Asp | Thr | Val | Leu | Pro | Phe | Pro | Cys | Leu | Phe | Asp | Thr | Tyr | Val | 100 | 105 | 110 |     |
| Glu | Asp | Ala | Phe | Lys | Ser | Asp | Asp | Asp | Ile | His | Pro | Gln | Phe | Arg | Arg | 115 | 120 | 125 |     |
| Lys | Phe | Arg | Val | Ile | Arg | Ala | Asp | Ser | Tyr | Leu | Lys | Asn | Phe | Ala | Ser | 130 | 135 | 140 |     |
| Asp | Arg | Ser | His | Met | Lys | Asp | Ser | Ser | Gly | Asn | Trp | Arg | Glu | Pro | Pro | 145 | 150 | 155 | 160 |
| Pro | Pro | Tyr | Pro | Cys | Ile | Glu | Thr | Gly | Asp | Ser | Lys | Met | Asn | Leu | Asn | 165 | 170 | 175 |     |
| Asp | Phe | Ile | Ser | Met | Asp | Pro | Lys | Val | Gly | Trp | Gly | Ala | Val | Tyr | Thr | 180 | 185 | 190 |     |
| Leu | Ser | Glu | Phe | Thr | His | Arg | Phe | Gly | Ser | Lys | Asn | Cys | 195 | 200 |     |     |     |     |     |

<210> 10858  
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<213> Homo sapiens

<400> 10858

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<400> 10860

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| Met | Lys | Gln | Ala | Thr | Asp | Leu | Lys | Ala | Ala | Gln | Leu | Lys | Ala | Arg | Ser |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Leu | Ala | Gln | Asn | Ala | Gln | Ser | Ser | Arg | Ala | Gln | Leu | Ser | Pro | Ala | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Ala | Gly | Tyr | Cys | Ser | Trp | Asn | Met | Ala | Leu | Gly | Gly | Gly | Thr | Ala |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Thr | Leu | Lys | Ala | Ser | Asn | Phe | Lys | Pro | Phe | Ala | Lys | Asp | Pro | Glu | Lys |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Gln | Lys | Arg | Tyr | Asp | Glu | Phe | Leu | Val | His | Met | Lys | Gln | Gly | Gln | Lys |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Asp | Ala | Leu | Glu | Arg | Cys | Leu | Asp | Pro | Ser | Met | Thr | Glu | Trp | Glu | Arg |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Gly | Arg | Glu | Arg | Asp | Glu | Phe | Ala | Arg | Ala | Ala | Leu | Leu | Tyr | Ala | Ser |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Ser | His | Ser | Thr | Leu | Ser | Ser | Arg | Phe | Thr | His | Ala | Lys | Glu | Glu | Asp |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ser | Asp | Gln | Val | Glu | Val | Pro | Arg | Asp | Gln | Glu | Asn | Asp | Val | Gly |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Lys | Gln | Ser | Ala | Val | Lys | Met | Lys | Met | Phe | Gly | Lys | Leu | Thr | Arg |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Asp | Thr | Phe | Glu | Trp | His | Pro | Asp | Lys | Leu | Leu | Cys | Lys | Arg | Phe | Asn |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Pro | Asp | Pro | Tyr | Pro | Asp | Ser | Thr | Leu | Val | Gly | Leu | Pro | Arg | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Lys | Arg | Asp | Lys | Tyr | Ser | Val | Phe | Asn | Phe | Leu | Thr | Leu | Pro | Glu | Thr |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ala | Ser | Leu | Pro | Thr | Thr | Gln | Ala | Ser | Ser | Glu | Lys | Val | Ser | Gln | His |
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| His | Glu | Lys | Lys | Glu | Asp | Ser | Ile | Ser | Glu | Phe | Leu | Ser | Leu | Ala | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Lys | Ala | Glu | Pro | Pro | Lys | Gln | Gln | Ser | Ser | Pro | Leu | Val | Asn | Lys |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Glu | Glu | Glu | His | Ala | Pro | Glu | Ser | Ala | Asn | Gln | Thr | Val | Asn | Lys |     |
|     |     | 275 |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |
| Asp | Val | Asp | Ala | Gln | Ala | Glu | Gly | Glu | Gly | Ser | Arg | Pro | Ser | Met | Asp |
| 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Phe | Arg | Ala | Ile | Phe | Ala | Ser | Ser | Ser | Asp | Glu | Lys | Ser | Ser | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Glu | Ala | Asn | Phe | Gln | Ser | Ser | Gln | Asp | Thr | Asp | Leu | Gly | Glu | Thr | Ser |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
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| Phe | Pro | Ile | Gln | Lys | Met | Gln | Ile | Asp | Glu | Arg | Glu | Glu | Phe | Gly | Pro |
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| Arg | Leu | Pro | Pro | Val | Phe | Cys | Pro | Asn | Ala | Arg | Gln | Thr | Leu | Glu | Val |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Lys | Glu | His | Arg | Arg | Lys | Lys | Glu | Lys | Lys | Lys | Lys | His | Arg | Lys | His |
|     |     |     | 420 |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
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| Ser | Glu | Ser | Ser | Asp | Ser | Ser | Asp | Ser | Gln | Ser | Asp | Glu | Glu | Thr | Ala |
| 450 |     |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
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| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
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<222> (144).. (1184)

<400> 10864

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          35          40          45
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Gly Cys Val Leu Cys Ala Gly Pro Glu Pro Leu Pro Pro Lys Gly Leu
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |
| Lys | Lys | Tyr | Gln | His | Ile | His | Gln | Lys | Ser | Phe | Ser | Cys | Pro | Glu | Pro |  |  |
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|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |
| Lys | Leu | His | Ser | Asp | Thr | Arg | Asp | Tyr | Ile | Cys | Glu | Phe | Cys | Ala | Arg |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |
| Ser | Phe | Arg | Thr | Ser | Ser | Asn | Leu | Val | Ile | His | Arg | Arg | Ile | His | Thr |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| Gly | Glu | Lys | Pro | Leu | Gln | Cys | Glu | Ile | Cys | Gly | Phe | Thr | Cys | Arg | Gln |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
| Lys | Ala | Ser | Leu | Asn | Trp | Arg | Gln | Arg | Lys | His | Ala | Glu | Thr | Val | Ala |  |  |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |  |  |
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|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |
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| Ser | Pro | Gln | Ala | Pro | Thr | Leu | Leu | Pro | Gln | Gln |     |     |     |     |     |  |  |
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Phe Ile Gly Val Val Lys Val Gly Leu Val Glu Asp Ser Pro Ser Thr

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| Pro Pro Ser Ser Pro Ser Met Ser Ser Ala Leu Ala Ile Val Gly Ser |     |     |     |     |
|   | 180 |     | 185 | 190 |
| Pro Asn Ser Pro Tyr Gly Asp Val Ile Gly Leu Gln Val Asp Tyr Trp |     |     |     |     |
|   | 195 |     | 200 | 205 |
| Leu Gly His Pro Gly Glu Arg Arg Arg Glu Gly Asp Lys Arg Asp Ala |     |     |     |     |
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| Ser Ser Lys Asn Thr Leu Lys Ser Val Phe Arg Ser Val Gln Val Ser |     |     |     |     |
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| Thr Val Val Thr Lys Glu Lys Asn Lys Lys Val Pro Thr Ile Phe Leu |     |     |     |     |
|   | 260 |     | 265 | 270 |
| Ser Lys Lys Pro Arg Glu Lys Glu Val Asp Ser Lys Ser Gln Val Ile |     |     |     |     |
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| Glu Gly Ile Ser Arg Leu Ile Cys Ser Ser Pro Ser Leu Gly Pro Ser |     |     |     |     |
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| Leu Gly Pro Asp Pro Ser Ser Gln Pro Gly Phe Pro Pro Ala Gly Ser |     |     |     |     |
| 305   |     | 310 |     | 315 |
| Phe Pro Pro Cys His Leu Pro Leu Thr Asn Pro Gly Ser Glu Pro Leu |     |     |     |     |
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| Ile Pro Asp Arg Pro Cys Ser Gln Glu Trp Leu Arg Thr Gln Gly Pro |     |     |     |     |
|   | 340 |     | 345 | 350 |
| Ser Pro Ala Leu Cys Thr Pro Gln Pro Gly His Leu Arg Pro Thr Ala |     |     |     |     |
|   | 355 |     | 360 | 365 |
| Pro Leu Glu Leu Phe Ser Cys Pro Leu Thr Pro Ser Gln Lys Phe Leu |     |     |     |     |
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 Glu Leu Leu Val Gln Pro Lys Leu Leu Ala Lys Glu Leu Leu Asp Leu  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 100 |     |     |     | 105 |     |     |     | 110 |     |     |     |     |
| Phe | Cys | Val | Arg | Phe | Tyr | Ile | Glu | Ser | Ile | Ser | Tyr | Leu | Lys | Asp | Asn |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Thr | Ile | Glu | Leu | Phe | Phe | Leu | Asn | Ala | Lys | Ser | Cys | Ile | Tyr | Lys |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Leu | Ile | Asp | Val | Asp | Ser | Glu | Val | Val | Phe | Glu | Leu | Ala | Ser | Tyr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| His | Pro | Ser | Leu | Ala | Tyr | Cys | Glu | Asp | Arg | Val | Ile | Glu | His | Tyr | Lys |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Leu | Asn | Gly | Gln | Thr | Arg | Gly | Gln | Ala | Ile | Val | Asn | Tyr | Met | Ser |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ile | Val | Gly | Ser | Leu | Pro | Thr | Tyr | Gly | Val | His | Tyr | Tyr | Ala | Val | Lys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asp | Lys | Gln | Gly | Ile | Pro | Trp | Trp | Leu | Gly | Leu | Ser | Tyr | Lys | Gly | Ile |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Phe | Gln | Tyr | Asp | Tyr | His | Asp | Lys | Val | Lys | Pro | Arg | Lys | Ile | Phe | Gln |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Trp | Arg | Gln | Leu | Glu | Asn | Leu | Tyr | Phe | Arg | Glu | Lys | Lys | Phe | Ser | Val |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Glu | Val | His | Asp | Pro | Arg | Arg | Ala | Ser | Val | Thr | Arg | Arg | Thr | Phe | Gly |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| His | Ser | Gly | Ile | Ala | Val | His | Thr | Trp | Tyr | Ala | Cys | Pro | Ala | Leu | Ile |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Ser | Ile | Trp | Ala | Met | Ala | Ile | Ser | Gln | His | Gln | Phe | Tyr | Leu | Asp |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Arg | Lys | Gln | Ser | Lys | Ser | Lys | Ile | His | Ala | Ala | Arg | Ser | Leu | Ser | Glu |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ile | Ala | Ile | Asp | Leu | Thr | Glu | Thr | Gly | Thr | Leu | Lys | Thr | Ser | Lys | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |
| Ala | Asn | Met | Gly | Ser | Lys | Gly | Lys | Ile | Ile | Ser | Gly | Ser | Ser | Gly | Ser |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Leu | Leu | Ser | Ser | Gly | Arg | Gln | Arg | Pro | Ala | Gly | Gly | Thr | Pro | Pro | Glu |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| His | Gly | Trp | Asp | Pro | Arg | Gly | Asp | Pro | Gly | Arg | Trp | Gly | Glu | Leu | Gln |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Leu | Gly | Arg | Leu | Gln | Gly | Lys | Leu | Leu | Gln | Ser | Trp | Leu | Cys | Phe | Pro |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Asp | Gln | Gly | Trp | Asp | Pro | Asn | Ala | Asn | Leu | Arg | Lys | Leu | Leu | Pro | Gly |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |
| Ile | Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Asn | Glu | Cys | Glu | Gln | Thr | Val | Ala | Leu | Leu | Ser | Leu | Pro | Lys | Arg |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Thr | Arg | Thr | Gln | Ala | Arg | Phe | Leu | Gln | Leu | Cys | Leu | Glu | His | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Ala | Asp | Cys | Asn | Asp | Ile | His | Leu | Leu | Glu | Ser | Glu | Ala | Asn | Ser |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Ala | Ala | Ile | Val | Ser | Gln | Trp | Gln | Gln | Glu | Ser | Lys | Glu | Lys | Val | Val |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Ser | Leu | Leu | Leu | Ser | His | Leu | Pro | Leu | Leu | Gln | Pro | Gly | Asn | Thr | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Lys | Ser | Glu | Tyr | Met | Arg | Leu | Leu | Gln | Lys | Val | Leu | Ala | Tyr | Ser |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Ile | Glu | Ser | Asn | Ala | Phe | Ile | Glu | Glu | Ser | Arg | Gln | Leu | Leu | Ser | Tyr |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
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| 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Leu | Trp | Leu | Ser | His | Leu | Glu | Glu | Arg | Leu | Ala | Ser | Gly | Phe | Arg | Ser |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     |     | 160 |
| Arg | Pro | Glu | Pro | Ser | Tyr | His | Ser | Arg | Gln | Gly | Ser | Asp | Glu | Trp | Gly |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Gly | Pro | Ala | Glu | Leu | Gly | Pro | Gly | Glu | Ala | Gly | Ser | Gly | Trp | Gln | Asp |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Lys | Pro | Pro | Arg | Glu | Ser | Gly | His | Val | Pro | Phe | His | Pro | Ser | Ser | Ser |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Val | Pro | Pro | Ala | Ile | Asn | Ser | Ile | Gly | Ser | Asn | Ala | Asn | Thr | Gly | Leu |
| 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Pro | Cys | Gln | Ile | His | Pro | Ser | Pro | Leu | Lys | Arg | Ser | Met | Ser | Leu | Ile |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Thr | Ser | Pro | Gln | Val | Pro | Gly | Glu | Trp | Pro | Ser | Pro | Glu | Glu | Leu |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Gly | Ala | Arg | Ala | Ala | Phe | Thr | Thr | Pro | Asp | His | Ala | Pro | Leu | Ser | Pro |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Gln | Ser | Ser | Val | Ala | Ser | Ser | Gly | Ser | Glu | Gln | Thr | Glu | Glu | Gln | Gly |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Ser | Ser | Arg | Asn | Thr | Phe | Gln | Glu | Asp | Gly | Ser | Gly | Met | Lys | Asp | Val |
| 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Pro | Ser | Trp | Leu | Lys | Ser | Leu | Arg | Leu | His | Lys | Tyr | Ala | Ala | Leu | Phe |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Ser | Gln | Asn | Gln | Leu |     |     |     |     |     |     |     |     |     |     |     |
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-4339/13211-

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<400> 10874

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| Met | Asp | Arg | Ser | Gly | Leu | Pro | Asp | Leu | Gln | Gly | Arg | Phe | Glu | Leu | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Lys | Asn | Arg | Gln | Tyr | Pro | Leu | Asp | Ala | Leu | Glu | Pro | Gln | Pro | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Gly | Asp | Ile | Lys | Asp | Ile | Lys | Lys | Ala | Ala | Lys | Ser | Met | Leu | Asp |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Ala | His | Lys | Ser | His | Phe | His | Pro | Val | Thr | Pro | Ser | Leu | Val | Phe |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Cys | Phe | Ile | Phe | Asp | Gly | Leu | His | Gln | Ala | Leu | Leu | Ser | Val | Gly |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Val | Ser | Lys | Arg | Ser | Asn | Thr | Val | Val | Gly | Asn | Glu | Asn | Glu | Glu | Arg |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Thr | Pro | Tyr | Ala | Ser | Arg | Phe | Lys | Asp | Met | Pro | Asn | Phe | Ile | Ala |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Glu | Lys | Ser | Ser | Val | Leu | Arg | His | Cys | Cys | Asp | Leu | Leu | Ile | Gly |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Ile | Ala | Ala | Gly | Ser | Ser | Asp | Lys | Ile | Cys | Thr | Ser | Ser | Leu | Gln | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gln | Arg | Arg | Phe | Lys | Ala | Met | Met | Ala | Ser | Ile | Gly | Arg | Leu | Ser | His |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gly | Glu | Ser | Ala | Asp | Leu | Leu | Ile | Ser | Cys | Asn | Ala | Glu | Ser | Ala | Ile |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Gly | Trp | Ile | Ser | Ser | Arg | Pro | Trp | Val | Gly | Glu | Leu | Met | Phe | Thr | Leu |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Phe | Gly | Asp | Phe | Glu | Ser | Pro | Leu | His | Lys | Leu | Arg | Lys | Ser | Ser |
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<212> DNA

<213> Homo sapiens

<400> 10875

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gttctattgc acagtaggac gactatagtt agtgataatg tatatttcaa aatagctaga 420
agagaggatt tttaatgttt tcaccacaat gaaatgataa tgtttgaggt gaggaatttg 480
ctaattaccc tgatttgatc attacacaat gtatacatgc attgaaacag tatactcctt 540
aagtacatat gattgttatg tcaattaaaa acaaaataaa actaaagaag aaattgctaa 600
gggagtaaat tccaaatggt ctcaccacaa aaataagtat ttgagggtgat ggatatgaca 660
attagctgga ttccattatt ccacattgta ttcataaato ataacatcct gtaccccata 720
aatatataca attataatth gtcaattttac aattttaaaat aaaaattaaa aaagaattga 780
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<210> 10876

<211> 1537

<212> DNA

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<221> CDS

<222> (22).. (504)

<400> 10876

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ttaaataatg ctccaattct atgtgttcag tcccatcttg gttacacaga aatggttagcc 180
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catctggagg ttgtcaagtt ttgtattcag tgtgactgga cgatggccgg ccagcagcaa 420
ggagtattta agaagagcca tgccatccaa caggccctca ttgctgcagc cagcatgggt 480
tatactgagg taagaagtag gcaataggat tgttttttca agctctgtat tgaaggaccc 540
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<210> 10877  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<400> 10877

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Leu | Ala | Ser | Leu | Arg | Asn | Leu | Tyr | Thr | Pro | Asn | Ile | Lys | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Arg | Leu | Leu | Ile | Leu | Gly | Gly | Ala | Asn | Ile | Asn | Tyr | Arg | Thr | Glu |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Leu | Asn | Asn | Ala | Pro | Ile | Leu | Cys | Val | Gln | Ser | His | Leu | Gly | Tyr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Glu | Met | Val | Ala | Leu | Leu | Leu | Glu | Phe | Gly | Ala | Asn | Val | Asp | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Ser | Glu | Ser | Gly | Leu | Thr | Pro | Leu | Gly | Tyr | Ala | Ala | Ala | Ala | Gly |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Tyr | Leu | Ser | Ile | Val | Val | Leu | Leu | Cys | Lys | Lys | Arg | Ala | Lys | Val | Asp |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Leu | Asp | Lys | Asn | Gly | Gln | Cys | Ala | Leu | Val | His | Ala | Ala | Leu | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Gly | His | Leu | Glu | Val | Val | Lys | Phe | Leu | Ile | Gln | Cys | Asp | Trp | Thr | Met |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Gly | Gln | Gln | Gln | Gly | Val | Phe | Lys | Lys | Ser | His | Ala | Ile | Gln | Gln |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |

09629469.072800

-4342/13211-

Ala Leu Ile Ala Ala Ala Ser Met Gly Tyr Thr Glu Val Arg Ser Arg  
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Gln

<210> 10878  
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<212> DNA  
<213> Homo sapiens

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aagtagttat cttaccataa tgagatttaa ctagaaatca acaaaagaaa gataattgat 240  
aaatctctaa atactaggaa attaaacaac ctacttctaa gtgatctgtg aatcaaagtc 300  
tcagagaaaag cagaaaatat tttgaagtga acaaaattga aaatgcaata tatcataatt 360  
catatgaagt agctaaatca gggcttagag ggaaatatgg aggattaaac cctcatatta 420  
gaaaagaaaa aaagaactgc aatgagcaat ctaagcttct acctaaagaa actagaaaaa 480  
gaagagcaaa acaagtctaa agcaagcaga aagaaggaat ttataaaga taagagtaga 540  
tatcaatgaa tttgaaaaca atagtggaga aaaccaataa aattaaaaat ctggtttttt 600  
aagtatatca agagctgata aacctctagc cagattgaca aggaaatatg acataaatta 660  
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gcattatcct ggttaccaaa ccagacaaag ttagtacagt aaaagaaaac tgcagaccaa 1080  
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gtagtcccag ctacgcagga ggctgaggca ggagaattgt ttttaaccag gaggtggagg 1440  
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ctcaaaaaca aac 1513

<210> 10879  
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<212> DNA  
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<400> 10879

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<210> 10880

<211> 277

<212> PRT

<213> Homo sapiens

<400> 10880

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          20             25             30
Asp Phe Ser Ile Trp Ser Ile Leu Arg Lys Cys Ile Gly Met Glu Leu
          35             40             45
Ser Lys Ile Thr Met Pro Val Ile Phe Asn Glu Pro Leu Ser Phe Leu
          50             55             60
Gln Arg Leu Thr Glu Tyr Met Glu His Thr Tyr Leu Ile His Lys Ala
          65             70             75             80
Ser Ser Leu Ser Asp Pro Val Glu Arg Met Gln Cys Val Ala Ala Phe
          85             90             95
Ala Val Ser Ala Val Ala Ser Gln Trp Glu Arg Thr Gly Lys Pro Phe
          100            105            110
Asn Pro Leu Leu Gly Glu Thr Tyr Glu Leu Val Arg Asp Leu Gly
          115            120            125
Phe Arg Leu Ile Ser Glu Gln Val Ser His His Pro Pro Ile Ser Ala

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|                     |   |     |
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| 130                 | 135   | 140 |
| Phe His Ala Glu Gly | Leu Asn Asn Asp Phe Ile Phe His Gly Ser Ile     |     |
| 145                 | 150   | 155 |
| Tyr Pro Lys Leu Lys | Phe Trp Gly Lys Ser Val Glu Ala Glu Pro Lys     | 160 |
|                     | 165   | 170 |
| Gly Thr Ile Thr     | Leu Glu Leu Leu Glu His Asn Glu Ala Tyr Thr Trp | 175 |
|                     | 180   | 185 |
| Thr Asn Pro Thr     | Cys Cys Val His Asn Ile Ile Val Gly Lys Leu Trp | 190 |
|                     | 195   | 200 |
| Ile Glu Gln Tyr Gly | Asn Val Glu Ile Ile Asn His Lys Ala Gly Asp     | 205 |
| 210                 | 215   | 220 |
| Lys Cys Val Leu Asn | Phe Lys Pro Cys Gly Leu Phe Gly Lys Glu Leu     | 225 |
|                     | 230   | 235 |
| His Lys Val Glu Gly | Tyr Ile Gln Asp Lys Ser Lys Lys Lys Leu Cys     | 240 |
|                     | 245   | 250 |
| Ala Leu Tyr Gly Lys | Trp Thr Glu Cys Leu Tyr Ser Val Asp Pro Ala     | 255 |
|                     | 260   | 265 |
| Thr Phe Asp Ala Tyr |   | 270 |
| 275                 |   |     |

<210> 10881  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (40).. (687)

<400> 10881

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| gtttggccgc | gggcaacctc | ggagcttata | ctcctcccag | tgacgggtct | ggagtgcgtg | 120 |
| ggggaccggc | tggtggcggg | tgaggggtcc | gatgtcctgg | tgtacagctt | ggactttggt | 180 |
| gggcatctgc | ggatgataaa | gcgagtgcag | aacctgcttg | gccactatct | tatccatggc | 240 |
| ttccgggtac | ggccagagcc | taatggagac | cttgacttgg | aggccatggt | ggctgtgttt | 300 |
| ggaagcaagg | gactccgagt | tgtgaaaatt | agctggggac | agggccactt | ctgggagctt | 360 |
| tggcgctctg | gcctgtggaa | catgtctgac | tggatttggg | atgcacgctg | gcttgaggga | 420 |
| aatatagcct | tggccctggg | ccacaactca | gtggtgctat | atgaccctgt | agtaggggtg | 480 |
| atcctgcaag | aggtgccctg | cacagacagg | tgcacctctt | cttcagcctg | cctgatttga | 540 |
| gacgcctgga | aggagctgac | catagtggca | ggtgctgttt | ccaaccagct | cttgggtctg | 600 |
| taccagcaa  | ctgcctttac | cctatacctc | tctgcacgtc | ccaccccggt | ttgctgtgtg | 660 |
| ctcaccacca | ggatgtgtac | cgggtttag  | taggagctga | aatccatgct | gagctgtacc | 720 |
| agaataaaga | atagagtgtg | gagtggt    |            |            |            | 746 |

<210> 10882  
 <211> 216

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-4345/13211-

<212> PRT

<213> Homo sapiens

<400> 10882

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Ala Gly Glu Gly Pro Asp Val Leu Val Tyr Ser Leu Asp Phe Gly Gly  
35 40 45  
His Leu Arg Met Ile Lys Arg Val Gln Asn Leu Leu Gly His Tyr Leu  
50 55 60  
Ile His Gly Phe Arg Val Arg Pro Glu Pro Asn Gly Asp Leu Asp Leu  
65 70 75 80  
Glu Ala Met Val Ala Val Phe Gly Ser Lys Gly Leu Arg Val Val Lys  
85 90 95  
Ile Ser Trp Gly Gln Gly His Phe Trp Glu Leu Trp Arg Ser Gly Leu  
100 105 110  
Trp Asn Met Ser Asp Trp Ile Trp Asp Ala Arg Trp Leu Glu Gly Asn  
115 120 125  
Ile Ala Leu Ala Leu Gly His Asn Ser Val Val Leu Tyr Asp Pro Val  
130 135 140  
Val Gly Cys Ile Leu Gln Glu Val Pro Cys Thr Asp Arg Cys Thr Leu  
145 150 155 160  
Ser Ser Ala Cys Leu Ile Gly Asp Ala Trp Lys Glu Leu Thr Ile Val  
165 170 175  
Ala Gly Ala Val Ser Asn Gln Leu Leu Val Trp Tyr Pro Ala Thr Ala  
180 185 190  
Phe Thr Leu Tyr Leu Ser Ala Arg Pro Thr Pro Phe Cys Cys Val Leu  
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Thr Pro Arg Met Cys Thr Arg Leu  
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<210> 10883

<211> 1215

<212> DNA

<213> Homo sapiens

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<222> (39).. (1169)

<400> 10883

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acaaactgaa aatccctcct gaagaaatga aacaaatgga acaaaagtig attagagact 180  
tccaagaata tgtagagcca ggagaagact tcccggttc tcccagaga agaaatactg 240

09629469.072300



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<210> 10884  
 <211> 377  
 <212> PRT  
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<400> 10884  
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 Pro Pro Glu Glu Met Lys Gln Met Glu Gln Lys Leu Ile Arg Asp Phe  
 35 40 45  
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 50 55 60  
 Arg Asn Thr Ala Ser Gln Glu Asp Lys Asp Asp Ser Val Val Leu Pro  
 65 70 75 80  
 Leu Gly Ala Asp Thr Leu Thr His Asn Leu Gly Ile Pro Val Leu Val  
 85 90 95  
 Val Cys Thr Lys Cys Asp Ala Ile Ser Val Leu Glu Lys Glu His Asp  
 100 105 110  
 Tyr Arg Asp Glu His Phe Asp Phe Ile Gln Ser His Ile Arg Lys Phe  
 115 120 125  
 Cys Leu Gln Tyr Gly Ala Ala Leu Ile Tyr Thr Ser Val Lys Glu Asn  
 130 135 140  
 Lys Asn Ile Asp Leu Val Tyr Lys Tyr Ile Val Gln Lys Leu Tyr Gly  
 145 150 155 160  
 Phe Pro Tyr Lys Ile Pro Ala Val Val Val Glu Lys Asp Ala Val Phe  
 165 170 175  
 Ile Pro Ala Gly Trp Asp Asn Asp Lys Lys Ile Gly Ile Leu His Glu

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180 185 190  
Asn Phe Gln Thr Leu Lys Ala Glu Asp Asn Phe Glu Asp Ile Ile Thr  
195 200 205  
Lys Pro Pro Val Arg Lys Phe Val His Glu Lys Glu Ile Met Ala Glu  
210 215 220  
Asp Asp Gln Val Phe Leu Met Lys Leu Gln Ser Leu Leu Ala Lys Gln  
225 230 235 240  
Pro Pro Thr Ala Ala Gly Arg Pro Val Asp Ala Ser Pro Arg Val Pro  
245 250 255  
Gly Gly Ser Pro Arg Thr Pro Asn Arg Ser Val Ser Ser Asn Val Ala  
260 265 270  
Ser Val Ser Pro Ile Pro Ala Gly Ser Lys Lys Ile Asp Pro Asn Met  
275 280 285  
Lys Ala Gly Ala Thr Ser Glu Gly Val Leu Ala Asn Phe Phe Asn Ser  
290 295 300  
Leu Leu Ser Lys Lys Thr Gly Ser Pro Gly Gly Pro Gly Val Ser Gly  
305 310 315 320  
Gly Ser Pro Ala Gly Gly Ala Gly Gly Ser Ser Gly Leu Pro Pro  
325 330 335  
Ser Thr Lys Lys Ser Gly Gln Lys Pro Val Leu Asp Val His Ala Glu  
340 345 350  
Leu Asp Arg Ile Thr Arg Lys Pro Val Thr Val Ser Pro Thr Thr Pro  
355 360 365  
Thr Ser Pro Thr Glu Gly Glu Ala Ser  
370 375

<210> 10885  
<211> 1140  
<212> DNA  
<213> Homo sapiens

<400> 10885  
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ggaaacagct gttttcagac ttcaggtaac agtagaagac tgtaattcct aactgaaagg 180  
aaacagatga agtgagccct gggattgcac tgtttgcagt atgaggagaa ggacccaaac 240  
atagtctagt ggtgtgcatg agttgatgag acagaagaga aaagttcatt ggccggagaag 300  
tggctaggat atataggaaa taccagagag aagggagcta cagagataga agagagcaag 360  
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ctgattgagt agccatggta cacaatacca tgaggctgga gaaagaaaagt gatagggcag 480  
ttctcagagc tcacataggg ctgggaatag tttgtgtttc catcagccag catagagaca 540  
tagaaccttg aacagaaaca tcagaagggt aatgccatag tagtgggacc aaattagtct 600  
gaggctagtg ctgcattgga cttcttctaa caaaaattga aagcaaacat tgaaaggatc 660  
aaattgattt aaaataattt atttgtgtgc tagaacaag tccaggatcc ttaagataa 720  
tacagtaaaa tccagcacca agaattgtaa attcacaatg gccagtatct agtcagaatt 780  
tttcatgtgt attggggatg agagtagtgt ggaggggcaa aagagggctt accaagaggg 840  
catcaggaaa ctttggggag tgttgggtat attctaaaag tgtattgaca gttacatgtg 900

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|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| tatatacatg | tgtcaacact | tatgtatgta | gtttaaacat  | attcacttta | ttatatgcta | 960  |
| gttatacatc | aataaagctg | ttaagaatga | tcaggatatgc | aaagaagcaa | ggaaatatga | 1020 |
| tccacaacaa | aaagaagaaa | tgacaggaca | atttaattag  | cagacaaaca | tgttaaaaca | 1080 |
| tgttatacat | atgctcaaga | atgtaaagga | aaatgtgaaa  | atggggagaa | aaaatatatt | 1140 |

<210> 10886  
 <211> 1758  
 <212> DNA  
 <213> Homo sapiens

<220>  
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| <400> 10886 |             |             |             |            |             |      |
| gatgatagga  | gttaagagag  | gactatagaa  | aactgggtct  | ctaagctgat | gtgtcaagtc  | 60   |
| acactgtcct  | ctgcttatcc  | taagcttacc  | ttgtctcaaat | ttcttttttt | tttctttttc  | 120  |
| tttgtttttg  | gtttttatatt | tttcttaaat  | ttcaaggata  | ttctttcttt | tgtaaagtgc  | 180  |
| acagagtatc  | atggctctgt  | cgccgaggct  | ggagtgcagt  | gggtgcagtc | caggtcactg  | 240  |
| caaccctgc   | cttccagggt  | caagcgattc  | tcctccctca  | gcctcccaag | tagctgggat  | 300  |
| tacaggcaca  | tgccatcatg  | cccggctaatt | ttttgtatatt | ttggtagaga | tgggggtttca | 360  |
| ccatgttggc  | caggctgggc  | tggaactcct  | gacctcagggt | gatttgccca | cctcagcctc  | 420  |
| ccaaaagtgc  | gggattacag  | gtgtgagcca  | ccgtgcccgt  | cccaaccagg | cttcttaaat  | 480  |
| gaattctaat  | atagaaacaa  | caggagctgc  | caggactctc  | ttaagggtcg | aacctaggac  | 540  |
| tgtcacagtg  | acatttctgc  | catattctgc  | tggtcacaaag | gcaagcccaa | attcaaaagg  | 600  |
| agagaaaatg  | acctcttaga  | gtttcctaatt | aaaaggtaatt | ttcattaaaa | atacaattca  | 660  |
| taaatttagcc | ctatgtttac  | tactgtcttt  | tcagctcttt  | ttttattcca | tgcatatttt  | 720  |
| gattcgtcac  | cacttggatt  | gtgccaccaa  | tgtttctatg  | acatgatcta | aaaaaaaaaa  | 780  |
| aaaaaaaaaa  | aagggctcag  | tagttttcac  | ttaaaagaca  | aagaggccca | ctgagctatt  | 840  |
| acagatgtta  | gttaggattc  | atttacttta  | atatggtaga  | aagaatgcta | tgataccact  | 900  |
| ttagtgtatg  | acaaaataag  | cttaatcaca  | tcctaggagc  | taagtattct | gacattataa  | 960  |
| tctcttctct  | cagagtccca  | tcacagcagt  | cttaggattc  | aagatctatt | cttgggaaac  | 1020 |
| attatagaac  | cagtgtgtca  | tgtacatata  | aatgagggaa  | aatataatgg | cttttggtaat | 1080 |
| cctgtagtta  | tccttcttgt  | catatactct  | ttttttcatt  | tttaaaaatt | ggggcaaaat  | 1140 |
| ttatataaca  | ttaaagttaac | cattctgaag  | tgtacaattt  | aatggcattt | aatacattca  | 1200 |
| cagtgttgta  | cgactttttt  | ttttttgagg  | aaaagcatat  | ttttaggata | atgtcaaaaac | 1260 |
| agattaataa  | gatgctaata  | agatggccag  | acattcactc  | agaagtgttt | tttgttttgt  | 1320 |
| tttggtgaaa  | tggtatgaga  | gatatgttgc  | cctacactta  | ggccactgca | ttcccgttta  | 1380 |
| agtgccagga  | ttgtgtcagc  | aacaggatgg  | cctaaacaat  | ctcagtcctg | tctcctgcca  | 1440 |
| gccccctaaa  | tcctccagaa  | ttgcaagaat  | aggccagggtg | tggtgggtca | cacctgtaat  | 1500 |
| cccaacactt  | tggaaggcca  | aggcaggcgg  | atcacttgag  | gccaggagtt | tgagaccagc  | 1560 |
| ctggccaaca  | tggaacaccc  | ccatctctac  | taaaaatata  | aaaattagcc | aggcagggtgt | 1620 |
| ggtggtgcat  | gccggtaatc  | tcagtttctt  | gggaggttcg  | ggtgggatga | tcgcttgaaac | 1680 |
| ctgggaggcg  | gaggctgcag  | tgagccgaga  | tcacgccact  | gcactccagc | ctgggcgaca  | 1740 |
| gaatgaggct  | ttttcttt    |             |             |            |             | 1758 |

<210> 10887  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 10887  
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 Ala Val Ser Gly His Cys Asn Pro Cys Leu Pro Gly Ser Ser Asp Ser  
 20 25 30  
 Pro Pro Ser Ala Ser Gln Val Ala Gly Ile Thr Gly Thr Cys His His  
 35 40 45  
 Ala Arg Leu Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val  
 50 55 60  
 Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Leu Pro Thr Ser  
 65 70 75 80  
 Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Arg Pro  
 85 90 95  
 Asn Gln Ala Ser  
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<210> 10888  
 <211> 2879  
 <212> DNA  
 <213> Homo sapiens

<400> 10888  
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 gcgggtcgcc ggagctctga tcgccgggaa cccttgccgc tgctgtcctg cgaccccaag 180  
 caggtataga cacgtgtggc cgtttacgct gtaggatcct cattccact ggctttgaac 240  
 attttgggga cttacaatgc cgccaccgc ggacatcgtc aagggtggcca tagaatggcc 300  
 gggcgccctac cccaaactca tggaaattga tcagaaaaaa ccactgtctg caataataaa 360  
 ggaagtctgt gatgggtggt ctcttgccaa ccatgaatat tttgcactcc agcatgccga 420  
 tagttcaaac ttctatatca cagaaaagaa ccgcaatgag ataaaaaatg gcactatcct 480  
 tcgattaacc acatctccag taagttgato ttagcttctg acttccagca aactctttgc 540  
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 gtagatttcc cactgcagag gaggaagacc ttattccagg cgaagggcaa gcttgtctaa 720  
 cctgcggccc aggatagctt tgaattcaca aattcgtaaa ctttctcaaa acattatgag 780  
 ttgttctgta tttattttag ttcatcagct atcgttagcg tattttatgt gtggcccaag 840  
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 tttgagtttg gaggtcatct taacaacttc cgtgttacag ctgggatcac tcacctgtac 960  
 caattggttt taccaccta ctcacacatc cacctaattgc catctgagca aattcagaca 1020  
 acaaacaaag caaacaaaac caaagtcagt tactttcctt taaagtcggt tactttcctt 1080  
 taaagtcagt gtggctgggc gcggtggctc atgcctgtaa tccagcact ttgggaggcc 1140  
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|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| tgtctctact  | aaaaatacaa | aaaattagcc | gggcgtgggtg | gtggacgcct | gtagtcccag  | 1260 |
| ctactcggga  | ggctaaggca | ggagaatggc | gtgaaacct   | ataggtggag | cttgacagtga | 1320 |
| gcagaggtag  | tgccactgca | ctccagcctg | ggtgagagag  | tgagactcca | tctcaaaaaa  | 1380 |
| aaaaaagaaa  | aaaaaagaaa | aagtcagtgt | gtgtgtgtgt  | gtgtgtgtct | gtgtgtgtgt  | 1440 |
| gtgtgtgtga  | gagagagaga | gagagtttaa | gtattttgta  | gctttaatgg | gttattatga  | 1500 |
| caattcataa  | aaataattta | gaaatattga | ccacttcact  | gatccattga | cagctgattc  | 1560 |
| tacataagaa  | ctttagagtc | ttctgaatta | aagctgctaa  | acaagacgct | acagtatatt  | 1620 |
| tagactattg  | tagctgatga | tgtctctctt | cttggctctt  | cctacttgct | tggagatact  | 1680 |
| ttaggtagta  | acattagcat | atttaactat | attattttac  | agtgcatctc | attgctttcc  | 1740 |
| taaaaaatta  | tctgccccaa | atacaccaag | tgttactatt  | ttcactctgc | atatgtgatg  | 1800 |
| aaaactgtgt  | ctaactatca | ttttcagttt | ccactgaagc  | catgtggtag | actaaaaata  | 1860 |
| aatttaaaaa  | ttgggaaaag | catctggcta | aaattaagct  | gtgggtactg | taactaccat  | 1920 |
| aaatccttat  | tgttgaaaat | tacattagtg | tggcttagaa  | actcctaaac | attttgcccc  | 1980 |
| ataacatcct  | gaacctaaaa | acagtgatga | gtcaaatgga  | gtgagtcgct | acagttggct  | 2040 |
| gaactgtctt  | tgatgcctgc | tttgctactt | aatggagatt  | ataatctact | catttttcag  | 2100 |
| tggctacatg  | atgagctgag | gcgttttcgt | ctgactttgc  | attggctctc | ttactcaagt  | 2160 |
| cagcatgaat  | gaatgttaat | ttgaccttta | caccattgtt  | ttatgtgttt | ttttagtatt  | 2220 |
| ctgattatcc  | tgctaaaagt | catcatctgc | ttgctggaca  | gaaaaagtag | accttgccct  | 2280 |
| ttatttcatt  | ttagagtcct | aaagacagct | ttttaatcaa  | agccttctct | aagccaaaga  | 2340 |
| aggagttagt  | ttcatttttt | tactgctgtg | gatttatgaa  | caaaaattcc | gcaatctaag  | 2400 |
| tcactccttg  | agagaaggct | tagatgttag | gcagagtga   | gtttttcagc | atcccaaaag  | 2460 |
| aaacttagcg  | tgacttgtca | tcaggaagaa | tggaatttgt  | gttcttgaga | taatgatcct  | 2520 |
| cacattccca  | gctcagtga  | tggaaagatg | tgaagccag   | tgtaagaggc | actattaaaa  | 2580 |
| gatgggagca  | gccgggtgca | gtggctcacg | cctgtaatcc  | cagcactttg | ggaggccgag  | 2640 |
| gcaggcggat  | cacgaggtca | ggagatcaag | accatcctgg  | ctaacacggt | gtaaaccccg  | 2700 |
| tctctactaa  | aaatacaaaa | aaaattagcc | aggcgtgggtg | gcaggcgcct | gtagtcccag  | 2760 |
| ctaactcggga | ggctgacgca | ggagaatggc | gtgaacccag  | gaggtggagc | ttacagttag  | 2820 |
| cagagatgac  | gccactgcac | tccagcctgg | gcaacagagt  | gagactatgt | ctctgtctc   | 2879 |

<210> 10889

<211> 1953

<212> DNA

<213> Homo sapiens

<400> 10889

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| gctttaatga  | tttatggcaa  | actcatacta | gccttgatca | gagaggtgac  | cctggcagtt | 60  |
| attgagcatt  | aactctggag  | gactgacgcc | actgagtcct | tctacacact  | gtaatttagt | 120 |
| gttcctatcc  | aagatggcca  | ctaaattgca | cttcttctat | tttcaccctc  | tggagaatgg | 180 |
| taaaaagcat  | gatttgcaaa  | tattgtcaag | tccaaagtgt | gtttctaaac  | tactaagcta | 240 |
| gccaaatgca  | tctctatatg  | ttacaatgtt | ctgcagatgt | gaaaaaatcc  | ttcccgggtt | 300 |
| tatgaaaagt  | agaatgatat  | gcactcttag | ctgcctctgg | catccggcac  | gtcacacagt | 360 |
| gtggctcagtc | cagtcaggct  | gcccagacca | cagattccca | goggcttcat  | ttgtcagaca | 420 |
| agctgacagg  | tggttggtcag | gaaaatactg | atcaagttgt | ttttgttgtt  | gttgttttga | 480 |
| gacagggtct  | cactctgtca  | cccaggctgg | agtgcagttg | tgcgatcttg  | gtcactaca  | 540 |
| acctctgcct  | cccaggttca  | agcgattctc | ctccctcagc | ctcccagagta | gtcgggatta | 600 |
| caggtgcccc  | cgacgacacc  | cagataatgt | ttgtattttt | gtagagacgg  | tttcaccatg | 660 |
| ttggccaggc  | tggtctcgaa  | ctcaagtgat | ccaccgcct  | cggcctccca  | aagtgtctgg | 720 |

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| attacaggca | tgagccactg | cactggcctt  | caagatgtta | aaagaaagta | ttattgtcaa  | 780  |
| tgactgagta | tttataagga | cagaaattcc  | tgaaattact | ccgttgatgc | tcctggtcct  | 840  |
| gaggcctcct | ttagagtacg | ggggagcctt  | gatatagaag | gccatggagg | gaagaatcag  | 900  |
| cagagcagca | tctccaagca | tcagcatctg  | ggttccagga | aaaggtgcac | gcactttgtg  | 960  |
| ctggtagcac | ctgcgtcaga | ttcccaagat  | gctctgaaac | agaagcattt | actggagtaa  | 1020 |
| aatactgcct | tacaggctgt | gcacagtggg  | tcacgcctgt | aatcccagca | tttagggagg  | 1080 |
| ccaaggcggg | cagatcacct | gaggtcggga  | gttcgagacc | atcctggcca | acatggtgaa  | 1140 |
| accccatctc | tactaaaact | acaaaattca  | gctgggcgtg | gtggcacacg | ccaggagtcc  | 1200 |
| cagctactca | ggagtctgag | gcacaagaat  | cgcttgaacc | cgggtggcag | aggttgcagt  | 1260 |
| gagctgagat | ggtaccactg | cactccagcc  | tgggtgacag | agcaagactt | tgtctcaaaa  | 1320 |
| aaataaatac | tgcccttaca | aggagagggc  | aaaatagagt | atttctgatg | ctgactgaca  | 1380 |
| atgcaagtga | catgaaaata | gccccatga   | ttcaactota | ggccagcaac | tcttattact  | 1440 |
| atgcctgtga | actctttggg | aaacttacaa  | atataaattc | ctacatccta | ctctggtagt  | 1500 |
| cagctttgtt | tggtctaggg | tgggtccagg  | actcctcact | tttagtaatt | gtccctgccg  | 1560 |
| attctttttt | ttaaataatg | gctttattgg  | gatataattc | acttaccata | aaattgactc  | 1620 |
| tcataaagca | tataatttag | tggtttctag  | tatactgact | gtgttgtgta | acaaccacca  | 1680 |
| ctctataatt | ttagaacatt | tccatcatcc  | tgcccccaaa | atccatacct | attagcagcc  | 1740 |
| tggccaacgt | ggcaaaaccc | caaaacccca  | tctctacaaa | aaaatacaaa | aaaaaaaaata | 1800 |
| gccggacagg | gtggtgcgct | cttgccctcag | tcacagctag | ctgaggggct | gaggcaggat  | 1860 |
| tgcttgaacc | aggaaggttg | agactgcagt  | cagccaagat | tgtgccactg | cactctggcc  | 1920 |
| tgggcgacag | agcgaggctc | cgtctcaaaa  | aag        |            |             | 1953 |

<210> 10890

<211> 2719

<212> DNA

<213> Homo sapiens

<400> 10890

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| tggatgtgaa | gaagcagcac | tggccaagga | catcagagac | ctcagagcaa  | ggcagccccg | 120  |
| ttctccttta | aagggactcg | gaaagtggca | gaggaggcct | gcattgccct  | ctgtgtggag | 180  |
| cggactggcc | cagaaatggg | ttcttctcgg | gtgacctgag | gtcaagtcag  | tctataacaa | 240  |
| tctaagacca | gggatcccaa | gagatcatct | cctccaacct | cttcattata  | taaatgggga | 300  |
| aaccaaggca | gagagtgggg | atgaagccat | gacacatggg | tggcagagct  | gactcatacc | 360  |
| tgggtctgcc | cactaggcca | tactacctct | cttgagtttt | tattgaaaac  | cagaaaagga | 420  |
| agttcgtcgc | ccagtggaag | ccacttaaag | attgatttct | gcctgaccat  | gaggcttggg | 480  |
| gtgaaccctg | caatgagatt | ggtagcaggt | agagctctga | tgttgaggag  | ccccacgttg | 540  |
| ggtgccttgg | acttcagctc | tgctatctgc | agtgggagcc | caccagacac  | atcctgggtt | 600  |
| tgagactctg | gggttgtgct | ttgacagctg | gctgccctgt | ccctgtgggg  | ctctgtggca | 660  |
| tggatgtgtg | tttgaagtta | aatgtcattg | tggaccctgt | ttagactgca  | ggcattgttg | 720  |
| gaagctctcg | agatggggcc | atcctcggtc | cttcccttgc | agtgaatggg  | agtgagtatg | 780  |
| tgatcccagg | ctagccactt | acttcctctc | tccaatcttc | agtgtcccca  | cctgtaaaat | 840  |
| ggggacactg | aagtacttgc | ttaccatccc | tctactggca | ggtcccatga  | acagctacca | 900  |
| tctgggcgtg | gccacagccc | atgaccagca | cctgggggaa | tcagagggaa  | aaggccggtg | 960  |
| ggaagggaag | gagggagaaa | gctgagatgc | cggaaagcct | tttgagactc  | tggccttggg | 1020 |
| taatcggcac | cccagtgacg | acttagctct | tggaaagcca | cttgccctggg | agagtttctt | 1080 |
| agtgtgaatg | aaggcagagg | aagggccaac | atcatcagtg | ttcctggggc  | ttgccactgt | 1140 |

|            |             |             |             |            |             |      |
|------------|-------------|-------------|-------------|------------|-------------|------|
| ttgctaaagg | gccgggtcag  | tcctaggcat  | gacatctcat  | cgttgtaacg | ctcccaagaa  | 1200 |
| gaggcactcc | cccacccttt  | tgcttatgag  | gatatggggg  | ctcagagagg | ccacacaacc  | 1260 |
| caccaggggt | cacacagcac  | acaaatagca  | gaacttggac  | agagagtctc | aaaacagaga  | 1320 |
| ttcagactca | ggtctggcca  | gcctcccago  | tgtacttggg  | gctctcccgt | ctggcttccc  | 1380 |
| actgggctgt | agtggacaac  | agagaaggag  | ctgctggtag  | aaaaccaa   | caaactctga  | 1440 |
| tatggtacct | gggagggtcc  | tgaaggctct  | ccttcatgca  | ctggtcatcc | ttgtgccaga  | 1500 |
| ccctgggctg | gactgaggga  | tccggaaatg  | ggcatgacgg  | ggtccttgcc | ctagagggaac | 1560 |
| tcaccgtggt | gggggtgccc  | atggagggcc  | ttctcaactca | gtggatgtga | aatgcatgtc  | 1620 |
| cccatggcgc | ctttctctgt  | ttgaaaaaaa  | tgaatcaatt  | ggctgctgct | cgggtgctcc  | 1680 |
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| Pro | Asp | Phe | Gly | Gly | Leu | Gly | Glu | Glu | Ala | Glu | Phe | Val | Glu | Val | Glu |
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|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Gln | Val | Asp | Val | Leu | Ile | Asp | Thr | Cys | Gln | Gly | Asp | Gly | Ala | Leu |
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| Met | Val | Val | Ala | Glu | Leu | Glu | Lys | Thr | Leu | Ser | Gly | Cys | Pro | Ala | Val |
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| Asp | Ser | Val | Val | Ser | Leu | Leu | Asp | Gly | Val | Val | Glu | Lys | Leu | Ser | Val |
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| Leu | Lys | Arg | Lys | Ala | Val | Glu | Ser | Ile | Gln | Ala | Glu | Asp | Glu | Ser | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Leu | Cys | Lys | Arg | Arg | Ile | Glu | His | Leu | Lys | Glu | His | Ser | Ser | Asp |
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| Met | Val | Glu | His | Leu | Leu | Arg | Cys | Gly | Tyr | Tyr | Asn | Thr | Ala | Val | Lys |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Lys | Ser | Cys | Leu | Glu | Phe | Ser | Leu | Arg | Ile | Gln | Glu | Phe | Ile | Glu | Leu |
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| Ile | Arg | Gln | Asn | Lys | Arg | Leu | Asp | Ala | Val | Arg | His | Ala | Arg | Lys | His |
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| Gly | Met | Leu | Ala | Phe | Pro | Pro | Asp | Thr | His | Ile | Ser | Pro | Tyr | Lys | Asp |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Leu | Asp | Pro | Ala | Arg | Trp | Arg | Met | Leu | Ile | Gln | Gln | Phe | Arg | Tyr |
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| Thr | Leu | Gln | Ala | Gly | Leu | Ser | Ala | Ile | Lys | Thr | Pro | Gln | Cys | Tyr | Lys |
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<400> 10896

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Met | Gln | Asp | Asp | Ser | Ile | Glu | Ala | Ser | Thr | Ser | Ile | Ser | Gln | Leu | Leu |  |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Arg | Glu | Ser | Tyr | Leu | Ala | Glu | Thr | Arg | His | Arg | Gly | Asn | Asn | Glu | Arg |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Ser | Arg | Ala | Glu | Pro | Ser | Ser | Asn | Pro | Cys | His | Phe | Gly | Ser | Pro | Ser |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Gly | Ala | Ala | Glu | Gly | Gly | Gly | Gly | Gln | Asp | Asp | Leu | Pro | Asp | Leu | Ser |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
| Ala | Phe | Leu | Ser | Gln | Glu | Leu | Asp | Glu | Ser | Val | Asn | Leu | Ala | Arg |     |  |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |  |
| Leu | Ala | Ile | Asn | Tyr | Asp | Pro | Leu | Glu | Lys | Ala | Asp | Glu | Thr | Gln | Ala |  |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
| Arg | Lys | Arg | Leu | Ser | Pro | Asp | Gln | Met | Lys | His | Ser | Pro | Asn | Leu | Ser |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Phe | Glu | Pro | Asn | Phe | Cys | Gln | Asp | Asn | Pro | Arg | Ser | Pro | Thr | Ser | Ser |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Lys | Glu | Ser | Pro | Gln | Glu | Ala | Lys | Arg | Pro | Gln | Tyr | Cys | Ser | Glu | Thr |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |
| Gln | Ser | Lys | Lys | Val | Phe | Leu | Asn | Lys | Ala | Ala | Asp | Phe | Ile | Glu | Glu |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |
| Leu | Ser | Ser | Leu | Phe | Lys | Ser | His | Ser | Ser | Lys | Arg | Ile | Arg | Pro | Arg |  |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |
| Ala | Cys | Lys | Asn | His | Lys | Ser | Lys | Leu | Glu | Ser | Gln | Asn | Lys | Val | Met |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Gln | Glu | Asn | Ser | Ser | Ser | Phe | Ser | Asp | Leu | Ser | Glu | Arg | Arg | Glu | Arg |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |
| Ser | Ser | Val | Pro | Ile | Pro | Ile | Pro | Ala | Asp | Thr | Arg | Asp | Asn | Glu | Val |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Asn | His | Ala | Leu | Glu | Gln | Gln | Glu | Ala | Lys | Arg | Arg | Glu | Ala | Glu | Gln |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |
| Ala | Ala | Ser | Glu | Ala | Ala | Gly | Gly | Asp | Thr | Thr | Pro | Gly | Ser | Ser | Pro |  |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |  |
| Ser | Ser | Leu | Tyr | Tyr | Glu | Glu | Pro | Leu | Gly | Gln | Pro | Pro | Arg | Phe | Thr |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |
| Gln | Lys | Leu | Arg | Ser | Arg | Glu | Val | Pro | Glu | Gly | Thr | Arg | Val | Gln | Leu |  |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |
| Asp | Cys | Ile | Val | Val | Gly | Ile | Pro | Pro | Pro | Gln | Val | Arg | Trp | Tyr | Cys |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |  |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Gly | Lys | Glu | Leu | Glu | Asn | Ser | Pro | Asp | Ile | His | Ile | Val | Gln | Ala |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Gly | Asn | Leu | His | Ser | Leu | Thr | Ile | Ala | Glu | Ala | Phe | Glu | Glu | Asp | Thr |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Gly | Arg | Tyr | Ser | Cys | Phe | Ala | Ser | Asn | Ile | Tyr | Gly | Thr | Asp | Ser | Thr |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Ala | Glu | Ile | Tyr | Ile | Glu | Gly | Val | Ser | Ser | Ser | Asp | Ser | Glu | Gly |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Asp | Pro | Asn | Lys | Glu | Glu | Met | Asn | Arg | Ile | Gln | Lys | Pro | Asn | Glu | Val |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ser | Ser | Pro | Pro | Thr | Thr | Ser | Ala | Val | Ile | Pro | Pro | Ala | Val | Pro | Gln |
| 385 |     |     |     | 390 |     |     |     |     |     | 395 |     |     |     |     | 400 |
| Ala | Gln | His | Leu | Val | Ala | Gln | Pro | Arg | Val | Ala | Thr | Ile | Gln | Gln | Cys |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Gln | Ser | Pro | Thr | Asn | Tyr | Leu | Gln | Gly | Leu | Asp | Gly | Lys | Pro | Ile | Ile |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ala | Ala | Pro | Val | Phe | Thr | Lys | Met | Leu | Gln | Asn | Leu | Ser | Ala | Ser | Glu |
|     |     | 435 |     |     |     |     | 440 |     |     |     | 445 |     |     |     |     |
| Gly | Gln | Leu | Val | Val | Phe | Glu | Cys | Arg | Val | Lys | Gly | Ala | Pro | Ser | Pro |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Lys | Val | Glu | Trp | Tyr | Arg | Glu | Gly | Thr | Leu | Ile | Glu | Asp | Ser | Pro | Asp |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Phe | Arg | Ile | Leu | Gln | Lys | Lys | Pro | Arg | Ser | Met | Ala | Glu | Pro | Gly | Lys |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     |     | 495 |     |
| Asp | Asp | Phe | Asn | Phe | Asn | Leu | Leu | Val | Tyr | Glu |     |     |     |     |     |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     |     |     |     |

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<400> 10899

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Leu | Cys | Pro | Val | Ile | Gly | Lys | Leu | Leu | His | Lys | Arg | Val | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Ala | Ser | Ala | Ser | Pro | Arg | Arg | Gln | Glu | Ile | Leu | Ser | Asn | Ala | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Arg | Phe | Glu | Val | Val | Pro | Ser | Lys | Phe | Lys | Glu | Lys | Leu | Asp | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Ser | Phe | Ala | Thr | Pro | Tyr | Gly | Tyr | Ala | Met | Glu | Thr | Ala | Lys | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Lys | Ala | Leu | Glu | Val | Ala | Asn | Arg | Leu | Tyr | Gln | Lys | Asp | Leu | Arg | Ala |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Pro | Asp | Val | Val | Ile | Gly | Ala | Asp | Thr | Ile | Val | Thr | Val | Gly | Gly | Leu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Ile | Leu | Glu | Lys | Pro | Val | Asp | Lys | Gln | Asp | Ala | Tyr | Arg | Met | Leu | Ser |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Arg | Leu | Ser | Gly | Arg | Glu | His | Ser | Val | Phe | Thr | Gly | Val | Ala | Ile | Val |
|     | 115 |     |     |     |     |     | 120 |     |     |     | 125 |     |     |     |     |
| His | Cys | Ser | Ser | Lys | Asp | His | Gln | Leu | Asp | Thr | Arg | Val | Ser | Glu | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     | 140 |     |     |     |     |     |
| Tyr | Gly | Glu | Thr | Lys | Val | Lys | Phe | Ser | Glu | Leu | Ser | Glu | Glu | Leu | Leu |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Trp | Glu | Tyr | Val | His | Ser | Gly | Glu | Pro | Met | Asp | Lys | Ala | Gly | Gly | Tyr |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Ile | Gln | Ala | Leu | Gly | Gly | Met | Leu | Val | Glu | Ser | Val | His | Gly | Asp |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Phe | Leu | Asn | Val | Val | Gly | Phe | Pro | Leu | Asn | His | Phe | Cys | Lys | Gln | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Val | Lys | Leu | Tyr | Tyr | Pro | Pro | Arg | Pro | Glu | Asp | Leu | Arg | Arg | Ser | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | His | Asp | Ser | Ile | Pro | Ala | Ala | Asp | Thr | Phe | Glu | Asp | Leu | Ser | Asp |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Val | Glu | Gly | Gly | Gly | Ser | Glu | Pro | Thr | Gln | Arg | Asp | Ala | Gly | Ser | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asp | Glu | Lys | Ala | Glu | Ala | Gly | Glu | Ala | Gly | Gln | Ala | Thr | Ala | Glu | Ala |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Glu | Cys | His | Arg | Thr | Arg | Glu | Thr | Leu | Pro | Pro | Phe | Pro | Thr | Arg | Leu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Glu | Leu | Ile | Glu | Gly | Phe | Met | Leu | Ser | Lys | Gly | Leu | Leu | Thr | Ala |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Cys | Lys | Leu | Lys | Val | Phe | Asp | Leu | Leu | Lys | Asp | Glu | Ala | Pro | Gln | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Ala | Ala | Asp | Ile | Ala | Ser | Lys | Val | Asp | Ala | Ser | Ala | Cys | Gly | Met | Glu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Arg | Leu | Leu | Asp | Ile | Cys | Ala | Ala | Met | Gly | Leu | Leu | Glu | Lys | Thr | Glu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Gln | Gly | Tyr | Ser | Asn | Thr | Glu | Thr | Ala | Asn | Val | Tyr | Leu | Ala | Ser | Asp |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Gly | Glu | Tyr | Ser | Leu | His | Gly | Phe | Ile | Met | His | Asn | Asn | Asp | Leu | Thr |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Trp | Asn | Leu | Phe | Thr | Tyr | Leu | Glu | Phe | Ala | Ile | Arg | Glu | Gly | Thr | Asn |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Gln | His | His | Arg | Ala | Leu | Gly | Lys | Lys | Ala | Glu | Asp | Leu | Phe | Gln | Asp |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ala | Tyr | Tyr | Gln | Ser | Pro | Glu | Thr | Arg | Leu | Arg | Phe | Met | Arg | Ala | Met |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     | 430 |     |     |     |
| His | Gly | Met | Thr | Lys | Leu | Thr | Ala | Cys | Gln | Val | Ala | Thr | Ala | Phe | Asn |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Leu | Ser | Arg | Phe | Ser | Ser | Ala | Cys | Asp | Met | Gly | Gly | Cys | Thr | Gly | Ala |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Leu | Ala | Arg | Glu | Leu | Ala | His | Glu | Tyr | Pro | Arg | Met | Gln | Val | Thr | Val |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Phe | Asp | Leu | Pro | Asp | Ile | Ile | Glu | Leu | Ala | Ala | His | Phe | Gln | Pro | Pro |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Gly | Pro | Gln | Ala | Val | Gln | Ile | His | Phe | Ala | Ala | Gly | Asp | Phe | Phe | Arg |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Asp | Pro | Leu | Pro | Ser | Ala | Glu | Leu | Tyr | Val | Leu | Cys | Arg | Ile | Leu | His |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Asp | Trp | Pro | Asp | Asp | Lys | Val | His | Lys | Leu | Leu | Ser | Arg | Val | Ala | Glu |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Ser | Cys | Lys | Pro | Gly | Ala | Gly | Leu | Leu | Leu | Val | Glu | Thr | Leu | Leu | Asp |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Glu | Lys | Arg | Val | Ala | Gln | Arg | Ala | Leu | Met | Gln | Ser | Leu | Asn | Met |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Leu | Val | Gln | Thr | Glu | Gly | Lys | Glu | Arg | Ser | Leu | Gly | Glu | Tyr | Gln | Cys |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Leu | Leu | Glu | Leu | His | Gly | Phe | His | Gln | Val | Gln | Val | Val | His | Leu | Gly |
|     |     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |
| Gly | Val | Leu | Asp | Ala | Ile | Leu | Ala | Thr | Lys | Val | Ala | Pro |     |     |     |
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<210> 10900  
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<400> 10900

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| aggggttaat  | ttagaagaaa | atacagtata | taataatctc  | aacatcatgt | ttagggtaaa  | 180  |
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| ctatagtgtg  | ggccctttta | aaaatggcag | cattgtactt  | gaatcagaaa | gcttactggg  | 360  |
| atttcctcat  | cgaaagtaga | gattgcagct | aatcctagta  | ccttttgta  | gtaattactt  | 420  |
| aaggcacagt  | gcaaagttga | aggactgttt | tggtacaaac  | tcaagccagc | tacatgtatg  | 480  |
| cttgcccttg  | tatccttgct | agagcacatg | cagggtataat | accgtattat | atacaacaag  | 540  |
| gccaccctgt  | tgtatctgtg | ttacaattaa | acatcagtc   | cagaaagtga | accctagtca  | 600  |
| tttattatag  | gtgcccacct | ctgacttgga | acaaaatgcc  | actccattca | tgttcatttt  | 660  |
| tgtcctggag  | aggatttatt | tcctaaaaga | ttctgaaagc  | caacaaatca | atgtagttct  | 720  |
| tcataagagaa | cttaagagta | aggctcaaaa | tggcctcaaa  | atgggcttct | tggatgactt  | 780  |
| ccaacagtga  | ctggccttct | caacactgca | gatgtotgag  | cactaccata | acctaacgaa  | 840  |
| gtgaggaagg  | aggaggcaaa | ttggtatttt | taaacaagaa  | tttaagtggc | tctttctttc  | 900  |
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| ttgggtgtca  | ttaaggttgt | gattattctt | gttgacacagg | tataggaaga | gaggctccaa  | 1200 |
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| agggaagga   | tgaaccaaga | agacaccaat | acagcgatgt  | aaggagtggc | ctgcttcacg  | 1380 |
| ttcccgttaa  | aatgaaagat | acagagcagg | aggatgacat  | cttgcgcgat | gaggatgggg  | 1440 |
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| agcacagcgg  | agatctgcgg | cagcttcagc | gcggcgcaca  | cgcccagcgt | gctccagtta  | 1620 |
| cacagcccca  | gcagcgcgcg | ctccatagcg | ccacgggcgc  | gggcacctgg | gcggccgcag  | 1680 |
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<211> 325

<212> PRT

<213> Homo sapiens

<400> 10903

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Leu Ala Gly Thr Arg Met Asp Leu Gly Glu Cys Thr Lys Ile His Asp
             50             55             60
Leu Ala Leu Arg Ala Asp Tyr Glu Ile Ala Ser Lys Glu Arg Asp Leu
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Phe Phe Glu Leu Asp Ala Met Asp His Leu Glu Ser Phe Ile Ala Glu
             85             90             95
Cys Asp Arg Arg Thr Glu Leu Ala Lys Lys Arg Leu Ala Glu Thr Gln

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009240.69462960



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 <213> Homo sapiens

<400> 10905

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| Met | Pro | Ser | Leu | Cys | Gly | Val | Ser | Leu | Glu | Asp | Gln | Ser | Gln | Gly | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys | Leu | Thr | Gly | Glu | Gln | Gln | Asp | Ser | Asp | Leu | Asp | Val | Ser | Asp | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Ile | Leu | Ser | Pro | Asn | Pro | Asp | Ala | Phe | Pro | Ala | Ser | Leu | Asp | Asp |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Ala | Ser | Leu | His | Pro | Val | Pro | Met | Pro | Cys | Pro | Phe | Ser | Ile | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Phe | Leu | Lys | Pro | Gln | Trp | Ala | Val | His | Ser | Val | Leu | Leu | Trp | Val |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Thr | Tyr | Asp | Ala | Ser | Leu | Pro | Pro | Gly | Pro | Pro | Ala | Asn | Pro | Arg | Pro |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Leu | Leu | Ile | Gly | Val | Ser | Leu | Ala | Gly | Glu | Gln | Arg | Ala | Phe | Trp | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Cys | Gln | Val | Ala | Ala | Leu | Ser | Ala | Pro | Val | Leu | Ala | Arg | Val | Ala | Trp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Pro | Glu | Thr | Ser | Cys | Cys | Leu | Leu | Ala | Gly | Gly | Gly | Pro | Gly | His |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Ala | Arg | Thr | Val | Ser | Cys | Ser | Pro |     |     |     |     |     |     |     |     |

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<400> 10906

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<210> 10907  
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 <212> PRT  
 <213> Homo sapiens

<400> 10907

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| Met | Glu | Arg | Ser | Gly | Pro | Ser | Glu | Val | Thr | Gly | Ser | Asp | Ala | Ser | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro | Asp | Pro | Gln | Leu | Ala | Val | Thr | Met | Gly | Phe | Thr | Gly | Phe | Gly | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Ala | Arg | Thr | Phe | Asp | Leu | Glu | Ala | Met | Phe | Glu | Gln | Thr | Arg | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Ala | Val | Glu | Arg | Ser | Arg | Lys | Thr | Leu | Glu | Ala | Arg | Glu | Lys | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Glu | Met | Asn | Arg | Glu | Lys | Glu | Leu | Arg | Arg | Gln | Asn | Glu | Asp | Ile |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Glu | Pro | Thr | Ser | Ser | Arg | Ser | Asn | Val | Val | Arg | Asp | Cys | Ser | Lys | Ser |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Ser | Arg | Asp | Thr | Ser | Ser | Ser | Glu | Ser | Glu | Gln | Ser | Ser | Asp | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Ser | Asp | Asp | Glu | Leu | Ile | Gly | Pro | Pro | Leu | Pro | Pro | Lys | Met | Val | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Pro | Val | Asn | Phe | Met | Glu | Glu | Asp | Ile | Leu | Gly | Pro | Leu | Pro | Pro |
|     |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Pro | Leu | Asn | Glu | Glu | Glu | Glu | Glu | Ala | Glu | Glu | Glu | Glu | Glu | Glu | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Glu | Glu | Glu | Asn | Pro | Val | His | Lys | Ile | Pro | Asp | Ser | His | Glu | Ile |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Leu | Lys | His | Gly | Thr | Lys | Thr | Val | Ser | Ala | Leu | Gly | Leu | Asp | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Ser | Gly | Ala | Arg | Leu | Val | Thr | Gly | Gly | Tyr | Asp | Tyr | Asp | Val | Lys | Phe |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Trp | Asp | Phe | Ala | Gly | Met | Asp | Ala | Ser | Phe | Lys | Ala | Phe | Arg | Ser | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gln | Pro | Cys | Glu | Cys | His | Gln | Ile | Lys | Ser | Leu | Gln | Tyr | Ser | Asn | Thr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Gly | Asp | Met | Ile | Leu | Val | Val | Ser | Gly | Ser | Ser | Gln | Ala | Lys | Val | Ile |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asp | Arg | Asp | Gly | Phe | Glu | Val | Met | Glu | Cys | Ile | Lys | Gly | Asp | Gln | Tyr |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ile | Val | Asp | Met | Ala | Asn | Thr | Lys | Gly | His | Thr | Ala | Met | Leu | His | Thr |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gly | Ser | Trp | His | Pro | Lys | Ile | Lys | Gly | Glu | Phe | Met | Thr | Cys | Ser | Asn |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asp | Ala | Thr | Val | Arg | Thr | Trp | Glu | Val | Glu | Asn | Pro | Lys | Lys | Gln | Lys |
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-4370/13211-

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Phe His Tyr Lys Gln Ala His Asp Ser Gly Thr Asp Thr Ser Cys Val  
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Ala Leu Asp Lys Thr Asp Asp Ser Asn Pro Arg Glu Ala Ile Leu Arg  
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His Ala Lys Ala Ala Glu Asp Ser Pro Tyr Trp Val Ser Pro Ala Tyr  
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<212> DNA

<213> Homo sapiens

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<400> 10908

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<212> DNA

<213> Homo sapiens

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Gly Val Lys Gln Lys Asp Gly Gln Glu Leu Ser Asn Asp Leu Asp Ala
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Gln Val Thr Tyr Pro Leu Pro Ser Gln Arg Thr Gly Ser Arg Glu Gly
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| caaaattttt | atatgcagat | atttgcttct | tttgcaagtt | tgagaatttc | acagtaactt | 2340 |
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| ggaagggaca  | cctccaaatt  | ccttcagcct | cccaaagtgc  | tgggattaca  | ggcatgaccc | 240  |
| accgctcccg  | gccttgtttt  | cgttttaaag | tcgtcttctt  | ttaatgtaat  | cattttgaac | 300  |
| atgtgtgaaa  | gttgatcata  | cgaattggat | caatcttgaa  | atactcaacc  | aaaagacagt | 360  |
| cgagaagcca  | gggggagaaa  | gaactcaggg | cacaaaatat  | tgggtccgaga | atggaattct | 420  |
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| ggtaaaaatta | tgtagtgtga  | tatactaccg | aacaatatct  | aatctctttt  | tagggaaata | 2100 |
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<211> 257

<212> PRT

<213> Homo sapiens

<400> 10917

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          50          55          60
Tyr Lys Val His Glu Lys Asn Arg Ser Tyr Thr Trp Leu Glu Lys Gln
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His Gly Pro Tyr Gly Ala Gly Ala Phe Phe Ile Leu Lys Gln Gly Gly
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His Phe Ser Gln Glu Phe Trp Asn Phe Cys Glu Val Pro Val Glu Ala
          115          120          125
Val Asp Ala Gly Asp Cys Asp Ile Asn Tyr Glu Gly Leu Asp Asn Leu
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Leu Arg Leu Lys Glu Leu Gln Ser Leu Ser Leu Gln Arg Cys Ser His
          145          150          155          160
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| Leu Pro Ala Val Ser Asn Pro Gly Leu Thr Gln Ile Leu Val Glu Glu |     |     |     |     |     |
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| Met Leu Pro Asn Cys Glu Val Val Gly Val Asp Trp Ala Glu Gly Leu |     |     |     |     |     |
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| tggttgatga  | tgcaattgtg | ataagagaca  | attatttcag  | tctgcccgtt | aataagaccg  | 360  |
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| Ser | Asp | Leu | Phe | Leu | Phe | Pro | Asp | Glu | Ser | Gly | Asn | Val | Ser | Gln | Glu |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Ser | Gly | Pro | Thr | Tyr | Ala | Ser | Phe | Ser | His | His | Phe | Ile | Ser | Asp | Ala |
|     |     |     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |
| Met | Thr | Gly | Val | Pro | Thr | Glu | Asn | Asp | Asp | Phe | Cys | Ile | Leu | Phe | Ala |
|     |     |     | 65  |     |     |     |     | 70  |     |     | 75  |     |     |     | 80  |
| Pro | Lys | Ala | Ala | Met | Gln | Glu | Lys | Glu | Glu | Glu | Pro | Val | Ile | Lys | Ile |
|     |     |     |     | 85  |     |     |     |     |     |     |     |     |     | 95  |     |
| Met | Val | Asp | Asp | Ala | Ile | Val | Ile | Arg | Asp | Asn | Tyr | Phe | Ser | Leu | Pro |
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Gln Thr Ile Tyr Glu Thr Ala Ala Arg Glu His Glu Ser Arg Gly Val  
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 <213> Homo sapiens

<400> 10921

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| Met | Ala | Val | Ile | Val | Asp | Lys | Pro | Trp | Phe | Tyr | Asp | Met | Lys | Lys | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Trp | Glu | Gly | Tyr | Pro | Ile | Gln | Ser | Thr | Ile | Pro | Ser | Gln | Tyr | Trp | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Tyr | Met | Ile | Glu | Leu | Ser | Phe | Tyr | Trp | Ser | Leu | Leu | Phe | Ser | Ile | Ala |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ser | Asp | Val | Lys | Arg | Lys | Asp | Phe | Lys | Glu | Gln | Ile | Ile | His | His | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Thr | Ile | Ile | Leu | Ile | Ser | Phe | Ser | Trp | Phe | Ala | Asn | Tyr | Ile | Arg |
|     | 65  |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Ala | Gly | Thr | Leu | Ile | Met | Ala | Leu | His | Asp | Ser | Ser | Asp | Tyr | Leu | Leu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Glu | Ser | Ala | Lys | Met | Phe | Asn | Tyr | Ala | Gly | Trp | Lys | Asn | Thr | Cys | Asn |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Asn | Ile | Phe | Ile | Val | Phe | Ala | Ile | Val | Phe | Ile | Ile | Thr | Arg | Leu | Val |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ile | Leu | Pro | Phe | Trp | Ile | Leu | His | Cys | Thr | Leu | Val | Tyr | Pro | Leu | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Tyr | Pro | Ala | Phe | Phe | Gly | Tyr | Tyr | Phe | Phe | Asn | Ser | Met | Met | Gly |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 145 |     | 150 |     | 155 |     | 160 |     |     |     |     |     |     |     |     |     |
| Val | Leu | Gln | Leu | Leu | His | Ile | Phe | Trp | Ala | Tyr | Leu | Ile | Leu | Arg | Met |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ala | His | Lys | Phe | Ile | Thr | Gly | Lys | Leu | Val | Glu | Asp | Glu | Arg | Ser | Asp |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Glu | Glu | Thr | Glu | Ser | Ser | Glu | Gly | Glu | Glu | Ala | Ala | Ala | Gly | Gly |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Ala | Lys | Ser | Arg | Pro | Leu | Ala | Asn | Gly | His | Pro | Ile | Leu | Asn | Asn |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asn | His | Arg | Lys | Asn | Asp |     |     |     |     |     |     |     |     |     |     |
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<400> 10922

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| tgaagcgtgg | ggccggcatc | gtctttccgt  | cctctgagac  | gaaggccgcg | gctgcacagg | 180  |
| aataatgtat | ttgtggcctt | ggacatgagg  | cagtcagtc   | tctgttgctg | ttaacataag | 240  |
| gtcagggact | gatgaggaaa | gcatggacct  | aatgaacggg  | caggcaagca | gtgtcaatat | 300  |
| tgcagctact | gcttctgaga | aaagtagcag  | ctctgaatcc  | ttaagtga   | aaggctctga | 360  |
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| cacaagaaga | ttcaatcatg | taagcttttg  | ggttggttaga | gagattcttc | atgctcaaac | 600  |
| attaaaaatt | agagcagaag | ttttgagcca  | ctatattaaa  | actgctaaga | aactgtatga | 660  |
| gctgaataac | cttcatgcac | ttatggcagt  | ggtttctggc  | ctacagagtg | ccccaatatt | 720  |
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| agaatatgta | atgagtaaag | aagataacta  | caaaagactc  | agagactata | taagtagctt | 840  |
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| ttcagcatac | ccatcaactg | gcagcattct  | agaaaatgag  | caaagatcaa | atttaatgaa | 960  |
| taatatccct | cgaataattt | ctgatttaca  | gcagtccttg  | gaatatgata | ttcccatggt | 1020 |
| gcctcatgtc | caaaaatatt | tcaactctgt  | tcagtatata  | gaagaactac | aaaaatttgt | 1080 |
| ggaagacgat | aattacaagt | aggttggtatc | ttcaaaagtg  | gtttgtataa | ctttgtcctg | 1140 |
| tcctccacct | ttctatccct | atgtatttaa  | acatctaaat  | cctacatggt | atcatacaaa | 1200 |
| ggactaatcc | agtgttttac | agcagtaaag  | gtactaacat  | gtattacttc | ttaatcactt | 1260 |
| gttatgattg | agccaatata | caaatacctc  | atctgttctt  | tttaatat   | tatctctgtt | 1320 |
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| cattgaatcc | ttatagaatt | tgtcttttaa  | tagacagaaa  | aattaatgaa | actttttaaa | 1440 |
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<400> 10923

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| Met | Asp | Leu | Met | Asn | Gly | Gln | Ala | Ser | Ser | Val | Asn | Ile | Ala | Ala | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Ser | Glu | Lys | Ser | Ser | Ser | Ser | Glu | Ser | Leu | Ser | Asp | Lys | Gly | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Leu | Lys | Lys | Ser | Phe | Asp | Ala | Val | Val | Phe | Asp | Val | Leu | Lys | Val |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Thr | Pro | Glu | Glu | Tyr | Ala | Gly | Gln | Ile | Thr | Leu | Met | Asp | Val | Pro | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Lys | Ala | Ile | Gln | Pro | Asp | Glu | Leu | Ser | Ser | Cys | Gly | Trp | Asn | Lys |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Lys | Glu | Lys | Tyr | Ser | Ala | Pro | Asn | Ala | Val | Ala | Phe | Thr | Arg | Arg |     |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Phe | Asn | His | Val | Ser | Phe | Trp | Val | Val | Arg | Glu | Ile | Leu | His | Ala | Gln |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Thr | Leu | Lys | Ile | Arg | Ala | Glu | Val | Leu | Ser | His | Tyr | Ile | Lys | Thr | Ala |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Lys | Lys | Leu | Tyr | Glu | Leu | Asn | Asn | Leu | His | Ala | Leu | Met | Ala | Val | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Gly | Leu | Gln | Ser | Ala | Pro | Ile | Phe | Arg | Leu | Thr | Lys | Thr | Trp | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Leu | Leu | Ser | Arg | Lys | Asp | Lys | Thr | Thr | Phe | Glu | Lys | Leu | Glu | Tyr | Val |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     | 175 |     |     |
| Met | Ser | Lys | Glu | Asp | Asn | Tyr | Lys | Arg | Leu | Arg | Asp | Tyr | Ile | Ser | Ser |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Leu | Lys | Met | Thr | Pro | Cys | Ile | Pro | Tyr | Leu | Gly | Ile | Tyr | Leu | Ser | Asp |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Leu | Thr | Tyr | Ile | Asp | Ser | Ala | Tyr | Pro | Ser | Thr | Gly | Ser | Ile | Leu | Glu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asn | Glu | Gln | Arg | Ser | Asn | Leu | Met | Asn | Asn | Ile | Leu | Arg | Ile | Ile | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Asp | Leu | Gln | Gln | Ser | Cys | Glu | Tyr | Asp | Ile | Pro | Met | Leu | Pro | His | Val |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     | 255 |     |     |     |
| Gln | Lys | Tyr | Leu | Asn | Ser | Val | Gln | Tyr | Ile | Glu | Glu | Leu | Gln | Lys | Phe |

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265

270

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| aaagaaaaaa | atcttatact  | gtccaaaaaa | ttagggagac  | cagcgcccag | tgttcatgtg | 720  |
| aggggggact | agtgtccatt  | tcaccaagc  | agcctggaaa  | tgctcatcct | cacagggcac | 780  |
| tggagagggt | tctcaagaag  | cgagtgcctc | catgggggaa  | ataattaacc | ccagattaaa | 840  |
| tgctgcttca | gacctaatgg  | atggtaaaaa | caagatccaa  | aaggatcaaa | ctctttccag | 900  |
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| acaagaataa | ataaagggtga | atcattgttc | aattatgaat  | atacatgatg | atgtaagaaa | 1500 |
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| agttaggagc | aaccaccagt  | caacagccag | ccagaaacag | aggtcttggt  | catctaagca  | 120  |
| caagaaattg | tattctgccca | acaagaagat | ttggctgacc | atgagaatga  | tttttttcct  | 180  |
| agagcttcca | gatgaggact  | cagtcatcag | acaccagat  | tatagccctg  | tggtagcccta | 240  |
| gttaaagaac | taagctattc  | catgtcagag | ttttgaccaa | cagtactgta  | ggctaataaaa | 300  |
| taggtgtgac | tgtaggctgt  | taagttttgt | tccatttgc  | atgaagcaat  | agaaaacagg  | 360  |
| caacatgctc | tgttttttct  | actcttgc   | caccttgg   | tttctgttct  | cctccattca  | 420  |
| ttaataaatt | gcttctgggt  | cctctaggta | ctaggctgtg | ggtaggggaa  | ggtaggaaaag | 480  |
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| gggaaaataa | gccatttctt  | ttctgcaaaa | cgggtgtatt | aaggcttgca  | ggatgaaata  | 600  |
| ttttgcttct | gacttctcca  | gctgagaagc | aggcataatt | ttctgtgatt  | attaatattg  | 660  |
| caaactctag | aaaatgcaag  | ctagccttcc | cagaagtitt | ctcactgttc  | tacactccaa  | 720  |
| ttgccctaag | ggaaatagag  | ggtgaagact | gtctttcctt | ctcagaggca  | ctcccaattt  | 780  |
| ctatgtgtga | ttctcttggg  | tcacctcat  | gtcaccagg  | aatgaaatat  | tccccatctt  | 840  |
| actccatgca | gaaaggagga  | gaagagccag | gacatgttct | gtattcctat  | gtattcccat  | 900  |
| taaccactag | ctttctctta  | catatgttca | ttaggggatg | aacaagaata  | ttggaaagat  | 960  |
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| tctgtcctta | gttttgattc  | ctctgtgaat | tgaggtaaaa | ttcccattta  | aatcctgtt   | 1080 |
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| agatacaa   | gacagaattt | taggatgact | tgatgtcaga | aataaggaaa | aggaagaaat | 1620 |
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| aaagaaaatt  | aagcttcaga | tatgggacac  | agcgggtcag  | gaaagattcc  | gaacaatcac  | 240  |
| gacagcgtac  | tacagaggag | ccatgggcat  | tatgctggtc  | tatgacatca  | caaataaaaa  | 300  |
| atcctttgac  | aatattaaaa | attggatcag  | aaacattgaa  | gagcatgcct  | cttccgatgt  | 360  |
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| aagaggggag  | aagctagcaa | ttgactatgg  | gattaaattc  | ttggagacaa  | gcgcaaaatc  | 480  |
| cagtgc aaat | gtagaagagg | cattttttac  | acttgcacga  | gatataatga  | caaaactcaa  | 540  |
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| agaatcacac  | ctcccggctg | ctgctgagag  | caccactgaa  | cttagacctc  | tcaacacagt  | 780  |
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| ttcagcacaa  | tcttagactc | atattttgac  | acttttgtgt  | cgtgaagtgc  | tagacaaatt  | 1020 |
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| ggtatttggt  | ctggttcata | tggtcaaata  | ttactgcctt  | ggtagcattt  | atttaagggc  | 1140 |
| ttttcttaa   | ataagaatca | ttaaagtcac  | taaaaaattt  | actgaaatgc  | ccatcttgtc  | 1200 |
| atcaaaggcc  | acaatttctt | tatttcttca  | gattaagagc  | tttgcctcat  | ccccgacctg  | 1260 |
| ttttccagag  | tctgggtagc | tgaatgaatc  | actttaaaat  | gattacctct  | gcctaattcta | 1320 |
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 Thr Ile Glu Leu Asp Gly Lys Lys Ile Lys Leu Gln Ile Trp Asp Thr  
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 65 70 75 80  
 Ala Met Gly Ile Met Leu Val Tyr Asp Ile Thr Asn Glu Lys Ser Phe  
 85 90 95  
 Asp Asn Ile Lys Asn Trp Ile Arg Asn Ile Glu Glu His Ala Ser Ser  
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Gln | Lys | Gly | Ile | Phe | Tyr | Leu | Thr | Leu | Phe | Leu | Ile | Leu | Gly | Thr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Cys | Thr | Leu | Phe | Phe | Ala | Phe | Glu | Cys | Arg | Tyr | Leu | Ala | Val | Gln | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
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|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ala | Thr | Leu | Leu | Arg | Thr | Ser | Phe | Ser | Asp | Pro | Gly | Val | Ile | Pro | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Leu | Pro | Asp | Glu | Ala | Ala | Phe | Ile | Glu | Met | Glu | Ile | Glu | Ala | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Gly | Ala | Val | Pro | Gln | Gly | Gln | Arg | Pro | Pro | Pro | Arg | Ile | Lys | Asn |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Phe | Gln | Ile | Asn | Asn | Gln | Ile | Val | Lys | Leu | Lys | Tyr | Cys | Tyr | Thr | Cys |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Ile | Phe | Arg | Pro | Pro | Arg | Ala | Ser | His | Cys | Ser | Ile | Cys | Asp | Asn |
|     | 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gly | Lys | Arg | Asn | Tyr | Arg | Tyr | Phe | Tyr | Leu | Phe | Ile | Leu | Ser | Leu | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Leu | Thr | Ile | Tyr | Val | Phe | Ala | Phe | Asn | Ile | Val | Tyr | Val | Ala | Leu |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 195 |     | 200 |     | 205 |     |     |     |     |     |     |     |     |     |     |
| Lys | Ser | Leu | Lys | Ile | Gly | Phe | Leu | Glu | Thr | Leu | Lys | Glu | Thr | Pro | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Thr | Val | Leu | Glu | Val | Leu | Ile | Cys | Phe | Phe | Thr | Leu | Trp | Ser | Val | Val |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Leu | Thr | Gly | Phe | His | Thr | Phe | Leu | Val | Ala | Leu | Asn | Gln | Thr | Thr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asn | Glu | Asp | Ile | Lys | Gly | Ser | Trp | Thr | Gly | Lys | Asn | Arg | Val | Gln | Asn |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Pro | Tyr | Ser | His | Gly | Asn | Ile | Val | Lys | Asn | Cys | Cys | Glu | Val | Leu | Cys |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Gly | Pro | Leu | Pro | Pro | Ser | Val | Leu | Asp | Arg | Arg | Gly | Ile | Leu | Pro | Leu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Glu | Glu | Ser | Glu | Gly | Arg | Pro | Pro | Ser | Thr | Gln | Glu | Thr | Ser | Ser | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
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| Pro | Glu | Pro | Pro | Gln | Glu | Ala | Ala | Glu | Ala | Glu | Lys |     |     |     |     |
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<210> 10934  
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 <213> Homo sapiens

<400> 10934

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| Met | Ile | Val | His | Arg | Asp | Ile | Lys | Gly | Ala | Asn | Ile | Leu | Arg | Asp | Ser |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Thr | Gly | Asn | Val | Lys | Leu | Gly | Asp | Phe | Gly | Ala | Ser | Lys | Arg | Leu | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Ile | Cys | Leu | Ser | Gly | Thr | Gly | Met | Lys | Ser | Val | Thr | Gly | Thr | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Tyr | Trp | Met | Ser | Pro | Glu | Val | Ile | Ser | Gly | Glu | Gly | Tyr | Gly | Arg | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Asp | Ile | Trp | Ser | Val | Ala | Cys | Thr | Val | Val | Glu | Met | Leu | Thr | Glu |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Lys | Pro | Pro | Trp | Ala | Glu | Phe | Glu | Ala | Met | Ala | Ala | Ile | Phe | Lys | Ile |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Thr | Gln | Pro | Thr | Asn | Pro | Lys | Leu | Pro | Pro | His | Val | Ser | Asp | Tyr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Arg | Asp | Phe | Leu | Lys | Arg | Ile | Phe | Val | Glu | Ala | Lys | Leu | Arg | Pro |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ser | Ala | Asp | Glu | Leu | Leu | Arg | His | Met | Phe | Val | His | Tyr | His |     |     |
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<400> 10935

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09629469.072800

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Pro | Glu | His | Gly | Gln | Arg | Leu | Glu | Arg | Leu | Ala | Arg | Glu | Leu | Phe |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Gly | Ser | Ser | Arg | Gly | Cys | Gly | Ala | Phe | Leu | Arg | His | Lys | Val | Ala |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ile | Ser | Pro | Thr | Val | Leu | Lys | Glu | Asn | Gly | Ile | Pro | Phe | Asn | Arg |
|     |     | 65  |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Thr | Gln | Glu | Ala | Gly | Glu | Phe | Met | Val | Thr | Phe | Pro | Tyr | Gly | Tyr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Ala | Gly | Phe | Asn | His | Gly | Phe | Asn | Cys | Ala | Glu | Ala | Ile | Asn | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Thr | Pro | Arg | Trp | Ile | Asp | Tyr | Gly | Lys | Met | Ala | Ser | Gln | Cys | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Cys | Gly | Glu | Ala | Arg | Val | Thr | Phe | Ser | Met | Asp | Ala | Phe | Val | Arg | Ile |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Gln | Pro | Glu | Arg | Tyr | Asp | Leu | Trp | Lys | Arg | Gly | Gln | Asp | Arg | Ala |
|     |     | 145 |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Val | Asp | His | Met | Glu | Pro | Arg | Val | Pro | Ala | Ser | Gln | Glu | Leu | Ser |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Gln | Lys | Glu | Val | Gln | Leu | Pro | Arg | Arg | Ala | Ala | Leu | Gly | Leu | Arg |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln | Leu | Pro | Ser | His | Trp | Ala | Arg | His | Ser | Pro | Trp | Pro | Met | Ala | Ala |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Arg | Ser | Gly | Thr | Arg | Cys | His | Thr | Leu | Val | Cys | Ser | Ser | Leu | Pro | Arg |
|     |     | 210 |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Gln | Ser | Ala | Val | Ser | Gly | Thr | Ala | Thr | Gln | Pro | Arg | Ala | Ala | Ala | Val |
|     |     | 225 |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| His | Ser | Ser | Lys | Lys | Pro | Ser | Ser | Thr | Pro | Ser | Ser | Thr | Pro | Gly | Pro |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Ala | Gln | Ile | Ile | His | Pro | Ser | Asn | Gly | Arg | Arg | Gly | Arg | Gly | Arg |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Pro | Pro | Gln | Lys | Leu | Arg | Ala | Gln | Glu | Leu | Thr | Leu | Gln | Thr | Pro | Ala |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Lys | Arg | Pro | Leu | Leu | Ala | Gly | Thr | Thr | Cys | Thr | Ala | Ser | Gly | Pro | Glu |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Pro | Glu | Pro | Leu | Pro | Glu | Asp | Gly | Ala | Leu | Met | Asp | Lys | Pro | Val | Pro |
|     |     | 305 |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Ser | Pro | Gly | Leu | Gln | His | Pro | Val | Lys | Ala | Ser | Gly | Cys | Ser | Trp |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ala | Pro | Val | Pro |     |     |     |     |     |     |     |     |     |     |     |     |
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<211> 528

<212> PRT

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| 385   | 390 395 400   |
| Asp Gln His Gln Leu Leu Arg Asp Asn Arg Ala Glu Arg Gly His Lys |   |
| 405   | 410 415   |
| Lys Asn Cys Ser Val Arg Thr Ala Ser Arg Gln Thr Ser Met His Leu |   |
| 420   | 425 430   |
| Gly Ser Leu Cys Thr Gly Asp Ile Lys Arg Arg Arg Lys Ala Ala Pro |   |
| 435   | 440 445   |
| Leu Pro Gly Pro Thr Thr Ala Gly Phe Val Gly Glu Asn Ala Gln Pro |   |
| 450   | 455 460   |
| Ile Leu Glu Asn Asn Ile Gly Asn Arg Met Leu Gln Asn Met Gly Trp |   |
| 465   | 470 475 480   |
| Thr Pro Gly Ser Gly Leu Gly Arg Asp Gly Lys Gly Ile Ser Glu Pro |   |
| 485   | 490 495   |
| Ile Gln Ala Met Gln Arg Pro Lys Gly Leu Gly Leu Gly Phe Pro Leu |   |
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| ttagagaaga gtatggtgtg gatatgggag gttggattag ccgactaaac tttgaagttt  | 180  |
| gcaactttag cagatgtttg gatagaagtt aacacagtag ttcaaatga tttcgcaactt  | 240  |
| catggtttat agaaatgctt tcacattcat atctgaatat ttgaaacaac ctagtgggta  | 300  |
| ggtaggtaag caattttatc tgtgtttccc atggaagaaa ctgaggctgg gagatgttca  | 360  |
| ttgtttgta tccaaggta tatagctagt aagtagaaga gtccagatgc aaaccaggc     | 420  |
| cacctgaaca atgttcacat cttttacca tggagaagag attagtgtt ttatttgtct    | 480  |
| aacactctgg tcagtgaat taaagtatct ccgtgtgaaa cagcatgcaa aaggctttgt   | 540  |
| ttctaataatt ttttaaaaat ccttttagat cgttgggaat taaacaaata cctagggcag | 600  |
| tgtggactta cctgaagtct tttgacattt tatgaagttc tgttaaacct agaaataaag  | 660  |
| tcaaataaat tttttattgc ttttagagaca tagttattgg aagttattta tagtttaa   | 720  |
| atgtagccat aataattatt cgtgactata tttcaagata gtttattcag caagcactta  | 780  |
| ctgagaacct accatgtact gggcactgtg ttcttaaaag gactaattga tgagctcagt  | 840  |
| ctagtggggg agatgagtaa accagcaatt ataatacaga gtactacttg agtagaggta  | 900  |
| cgcataggga aaaccctgta atagaggag cactgtctgt gttacctaat gcagacttga   | 960  |
| ggtaattcga aaaggcatgt taagccatgt gatgcttgag tacaatcttg aaagcatgtt  | 1020 |
| aatacttaac ttggtaagaa cattttaagc gaataacagc ctatgcaaat acacagaggc  | 1080 |
| atttgagaat gcggcactta gagggagcta caaatagatt gacatggcaa gagtatgcac  | 1140 |

00620469 072800

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| aagagcctta | gatgacatgc | ttttaaaaag  | ttagtacttt  | ttcctaaaga  | taattgggag | 1260 |
| tcattggtga | attttaatag | ggaaatgctt  | gctatccatt  | tatgtttgca  | aagattacat | 1320 |
| aatagtgtgg | aggatggaat | tggtggtgca  | ggatatgaga  | ttggaagcaa  | gaataccagt | 1380 |
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| agaaaagaaa | gaaatttgag | aaataattag  | aaggttgaga  | tttaactagt  | cttggtgaga | 1500 |
| gagagagata | gtcttcagat | gtggttttga  | caaattgggtg | gatggcgatg  | ctggtcaaag | 1560 |
| ccaatacatg | gttgaaaaag | ccggttttctg | tggctagagg  | gtgttgatga  | gctcagtttg | 1620 |
| agatatattt | agttgaaggt | acctgtggga  | atttacgggt  | agaaataact  | gttaggaggc | 1680 |
| tgggcatggt | gtctcacatc | tgtaatccca  | gcagtttgga  | ggctgagggtg | aacagattgc | 1740 |
| ttgagatcag | gaattttgag | accagcctgg  | tcaaagtggg  | gaaaccccat  | gtctactaaa | 1800 |
| aattcaaaaa | ttagctgaca | tggtggcggg  | cgctgtaat   | cccagctgct  | tgggatgctg | 1860 |
| gottgaacct | gggaggtgga | gtttgcactg  | agccaagatc  | acgtcactca  | ctccagcctg | 1920 |
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| tgacaaggat  | atccaggact tgaactcagc tctggaccaaa gcagacctaa tagacatcta 420 |
| cagaaccctc  | caccccaaat caacaaaaca tacacttttc tcagcaccac aatgcactta 480  |
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| aaaagaacta  | gagaagcaag agcgaacaaa tccaaaagct agcagaagac aagaaataac 900  |
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| agaaaatcta  | gaagaaatgg ataaattcct gtacacatac accctcccaa gactaaacca 1200 |
| ggaagaggtc  | gaatccctga ataggccaat aacaagttct gaaattgagg cagcaattaa 1260 |
| tagcctatta  | accaaaaaaa agtccaggac cagacggatt cacagccaaa ttctaccaga 1320 |



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 <213> Homo sapiens

<400> 10941

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Lys | Gly | Ser | Lys | Gln | Gln | Lys | Glu | Leu | Thr | Ile | Leu | Asn | Ile | 1   | 5   | 10  | 15  |
| Cys | Ala | Ser | Asn | Thr | Gly | Ala | Pro | Ser | Phe | Ile | Lys | Lys | Val | Leu | Arg | 20  | 25  | 30  |     |
| Asp | Leu | Gln | Arg | Asp | Leu | Asp | Ser | His | Thr | Ile | Ile | Val | Gly | Asp | Phe | 35  | 40  | 45  |     |
| Asn | Asn | Pro | Val | Ser | Ile | Leu | Asp | Arg | Ser | Ile | Arg | Gln | Lys | Ile | Asp | 50  | 55  | 60  |     |
| Lys | Asp | Ile | Gln | Asp | Leu | Asn | Ser | Ala | Leu | Asp | Gln | Ala | Asp | Leu | Ile | 65  | 70  | 75  | 80  |
| Asp | Ile | Tyr | Arg | Thr | Leu | His | Pro | Lys | Ser | Thr | Lys | His | Thr | Leu | Phe | 85  | 90  | 95  |     |
| Ser | Ala | Pro | Gln | Cys | Thr | Tyr | Ser | Lys | Thr | Asp | His | Leu | Ile | Gly | Ser | 100 | 105 | 110 |     |
| Lys | Ala | Leu | Leu | Ser | Lys | Cys | Arg | Ile | Arg | Glu | Ile | Ile | Thr | Asn | Ser | 115 | 120 | 125 |     |
| Leu | Ser | Asp | His | Ser | Ala | Ile | Lys | Leu | Glu | Leu | Arg | Ile | Lys | Lys | Leu | 130 | 135 | 140 |     |
| Thr | Gln | Asn | His | Thr | Thr | Thr | Trp | Lys | Leu | Asn | Asn | Leu | Leu | Leu | Asn | 145 | 150 | 155 | 160 |
| Asp | Tyr | Trp | Val | Asn | Asn | Glu | Met | Lys | Ala | Glu | Ile | Lys | Met | Phe | Phe | 165 | 170 | 175 |     |
| Glu | Thr | Asn | Glu | Asn | Lys | Asp | Arg | Ala | Tyr | Gln | Asn | Leu | Trp | Asp | Thr | 180 | 185 | 190 |     |
| Phe | Lys | Ala | Leu | Cys | Arg | Arg | Lys | Phe | Ile | Ala | Leu | Asn | Ala | His | Lys | 195 | 200 | 205 |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Gln | Arg | Arg | Ser | Lys | Ile | Asp | Thr | Leu | Thr | Ser | Gln | Leu | Lys |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Leu | Glu | Lys | Gln | Glu | Arg | Thr | Asn | Pro | Lys | Ala | Ser | Arg | Arg | Gln |
| 225 |     |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Ile | Thr | Lys | Ile | Arg | Thr | Glu | Leu | Lys | Glu | Arg | His | Glu | Lys | Pro |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Phe | Lys | Lys | Ser | Val | Asn | Pro | Glu | Leu | Val | Phe | Leu | Lys | Arg | Ser | Thr |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Lys |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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<400> 10942

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| cgatattcat | ctcaaagagt | ttgaacaaca  | gattcaatto  | tgtgtaggga | ccatttcctc | 120  |
| atttattctt | tattcctact | aaatcagaaa  | taccaaatto  | ataagtcatt | tggaatgggt | 180  |
| aacaaatggt | cgatggtttg | tcaactagtc  | ttgacaaaacg | gattctacaa | tgtacagaaa | 240  |
| ttatggagac | agttttcact | gatagatgtt  | cagtgcctca  | aaggaaactc | attaagatga | 300  |
| gggaatggcc | tctcaaattg | aacaggattg  | ctgaatatat  | caacacaaaa | gatcactagc | 360  |
| aaatggattc | ctaatgaatt | cctggttgaa  | tttgccctccg | ataattatgt | attcatattc | 420  |
| agtttgagca | ttcagatgtg | ttaaataatg  | ccaataatag  | cactgattta | tttccctcct | 480  |
| taatttagaa | tatctttaag | tagttagaag  | gaaacccttg  | ttaactaatc | cattgacatc | 540  |
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| gttgttcgtg | aagtcataaa | gtcaggcttc  | tccactctct  | gtttgatttt | tatgtgtatg | 660  |
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| gtgtattttc | tccctgaaaa | cttggttatt  | tctttggaac  | ctttatgcca | aatgatatat | 780  |
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| gcattatttc | attttgtgtg | agttggtact  | ctaaaatata  | ataaggcaga | cagctttaaa | 900  |
| cccatgtgat | gtttaatatc | ctacaaagac  | caaagagtca  | tagtggatat | ttccctcaat | 960  |
| ctaaaaataa | gggaaaatac | taataagcaa  | attatataaa  | aatgaatctg | cttaaataga | 1020 |
| cagcaccctg | tttgccagat | gttacctgag  | acaaccaatc  | catatatccc | atgtatgtga | 1080 |
| gatgtttaaa | aatgtaagaa | ttactaagga  | catgataaat  | ttttatgaga | atcataatta | 1140 |
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| tcacattgga | aagcaatggg | ttgtcctttg  | gcttatttta  | ttttagtaat | taactgtcct | 1260 |
| ttaaaaacaa | taaaactttc | agccttcagt  | gactttgata  | acctatgtga | taaagtcaga | 1320 |
| actcattagc | ctgatattca | aggtcttccc  | agagaggctc  | catcttacct | gctctgactt | 1380 |
| ctgtcttata | cctgctgata | cacctggggt  | gtctgtctgaa | agcaggtcag | cacaatgact | 1440 |
| cagattcttc | cctttctttc | cctctcccat  | gccccaggat  | ttgtttgtac | aactggccca | 1500 |
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09629469.072300

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| acagtattaa  | tgcaatcatc  | tagttcatac | cttgtaagcc  | cacttattat | ttcctctgcg | 180  |
| tgtgtttttt  | ctggtttagc  | ggattagctg | cactgtctct  | tcaaaggctg | tccaatcaag | 240  |
| gaggggttat  | taaaaccagg  | gcgatttatg | actgagaatt  | aattagagaa | gcattttcat | 300  |
| gcacaacatc  | caattttttg  | attagcaatg | gagcagggcc  | gcaattaaca | ctcgaggaag | 360  |
| cttaaatttc  | cagctttttg  | attctcagga | aatgagatta  | tcaaaccagg | gtcagacact | 420  |
| tgacagcaaa  | gtgggagtgg  | gggagtgtga | aattatatgt  | aaaaaaaaaa | aaaaaaaaaa | 480  |
| aaaattccag  | agtctagaaa  | ttcggtcatt | tttctcttta  | tgtaatggta | agaattaaga | 540  |
| atcctcacat  | ctgcaaccaa  | aaatacaagc | ctgggtgtgt  | acactaaagg | gtaaaacagg | 600  |
| gatagatata  | agctgttatg  | ctattcttca | ggcaacactg  | tggataagtg | acattcagat | 660  |
| gtttactgta  | aagaaaaatt  | tgaatacatt | tgtattgaag  | ggcttttaga | aaagagcatt | 720  |
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| tttaaaagat  | aattttaaaag | ttatctttcc | aggctgacac  | ggtggcccac | tcctctagtc | 840  |
| ataacactct  | gggaggctgt  | ggtgggacga | tcctctgagc  | ccaggagttc | atagaccagc | 900  |
| ctgggtaata  | tagggagacc  | ccatctctat | ctaaaatttt  | ttttaaaaga | aaataaatat | 960  |
| ctttacagtt  | atttttctta  | gtcctatgtt | ctttattttg  | gtgttttcca | ttggatacct | 1020 |
| gcatgccaaag | tgttgtgcta  | cagtattact | gaagagtata  | atggaagtaa | tgtcctgctg | 1080 |
| aaaattttct  | ttgagatatt  | aatcattaat | aatttatata  | ttgctattta | atacttacat | 1140 |
| aggctcttag  | ctttttaaag  | gatttctgtt | tgacagcttt  | tataattgaa | agttattcca | 1200 |
| tttttttttt  | aattttgcat  | gcttgaaaaa | gatgaaaaca  | gtgatttaaa | ttatgaagta | 1260 |
| tggggccagg  | tgcaagtggc  | catgctggta | atcccagcac  | tttgagaggc | taaggcaagt | 1320 |
| gggtcacttg  | agcccaagag  | ttcaagacca | gcctggccaa  | catggtgtga | aaccccgctc | 1380 |
| gtactaaaaa  | tacaaaaatt  | agccaggcgt | ggtggtgcat  | gcctgtaatc | ccaggtactt | 1440 |
| gggaggctga  | ggcacaggaa  | ttgcgtgaac | ccaggaggca  | gaggttgcat | tgagccaaga | 1500 |
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| aatctttttat | cctcttgccc | tcattggtat | cttcatccca | ccttgggtcc  | cagtcccctc  | 120 |
| tcctgttccc  | acaccacctg | tcacatgcaa | gggatgatgg | ctgtctgctc  | ctgggtctat  | 180 |
| gctttgtgga  | agaaggatgc | tgtggaggga | gcataatcaa | gctctaaagt  | ggcattctct  | 240 |
| cccacccttt  | gcagttctgc | ctcctggggg | cattgctggc | ccccatccga  | gtgcttctgg  | 300 |
| cctttatcgt  | cctctttctc | ctctggccct | ttgcctggct | tcaagtggcc  | ggtcttagtg  | 360 |
| aggagcagct  | tcaggagcca | attacaggat | ggaggaagta | agtgagggat  | cagccccag   | 420 |
| agaccctact  | tctcttccct | gctgtctatt | cggctccctc | tttgagaaga  | agaaaagaga  | 480 |
| gcattctgaa  | actattctgt | ctagcttggg | tagatgagat | gagtcagcca  | agctcagacg  | 540 |
| tggttcccag  | acctcacctc | taagtaatgt | gccctgatag | gtcccaaaagt | ggccagagac  | 600 |
| cttggccctt  | tggtcacatc | ctatttaagg | gtaaaagagg | ggtgccctac  | tttcccgggtg | 660 |
| totgaacctg  | ggggcgggtg | agggttagaa | ccactgcttc | cgctgatacc  | cagccttgcc  | 720 |
| ctggcaggac  | tgtgtgccac | aacgggggtg | taggcctgag | cgcctgctg   | tttttctctg  | 780 |
| tgggcttcct  | ccggattcgc | gttcgtggcc | agcgagcctc | tgccttcaa   | gcccctgtcc  | 840 |
| ttgttgctgc  | cccacactcc | actttctttg | acccatttgt | totgotgccc  | tgtgacctgc  | 900 |

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|            |            |            |            |            |            |      |
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| aaaggggtg  | aagggcaggg | tgacaactct | gggcaaaaaa | agtcaggaat | ggagacactg | 1020 |
| gagtgaagaa | ctggcctcaa | agtggggagg | gactgttggc | aagtgaata  | taaattaaca | 1080 |
| ccattagtca | accagtctta | gattctgagg | gctgggacag | agagaagggt | ttggagggag | 1140 |
| ttctggtcag | ttctctaaaa | ggacaactac | tataaaggga | ttgtcccagg | gcaaagataa | 1200 |
| caggccaggc | acggtggctc | gcgcctataa | tcccagcacg | ttgggaggcc | aaggcgggcg | 1260 |
| gatcacctga | ggtcgggagt | tcgagaccag | cctgaccaac | atggagaaac | cctgtctcta | 1320 |
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| agttcatctg  | tgatatcaga  | tcagttcacc | aatacatgct  | acatacttgt | gcccctgaag  | 120  |
| ctttgtaaa   | gcctaggaca  | ttccagttct | cctcactcag  | tttggtgaac | aaggacatgc  | 180  |
| ccatgtcaag  | tacagtaccc  | catgagacac | tggctgagtg  | gggttatgtg | tcatttccca  | 240  |
| tgctctcagt  | cagcagatcc  | tctttggcca | gtctgcatct  | ttcatgcaag | gagagagctt  | 300  |
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| tccagtccac  | agaagcactt  | cttctagtgc | ttccccttca  | ctccccaaga | ggctgcttct  | 420  |
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| ctgggtgggct | cctctacttt  | cagttagggt | gaaatggggt  | ctctgccact | acctcttcac  | 1320 |
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| gttagcttga  | atctgtgcga  | cttatgccac | acagtttagag | gagaggcctg | cagttctgga  | 1440 |
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| Val | Lys | Leu | Arg | His | Leu | Leu | Ala | Asn | Ser | Pro | Lys | Val | Lys | Gln | Thr |
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| Asp | Lys | Gln | Lys | Leu | Ala | Gln | Arg | Glu | Glu | Ala | Leu | Gln | Lys | Ile | Arg |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gln | Lys | Asn | Thr | Met | Arg | Arg | Glu | Val | Thr | Val | Glu | Leu | Ser | Ser | Gln |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Phe | Trp | Lys | Thr | Gly | Ile | Arg | Ser | Asp | Val | Cys | Gln | His | Ala | Met |
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| Met | Leu | Pro | Val | Leu | Thr | His | His | Ile | Arg | Tyr | His | Gln | Cys | Leu | Met |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| His | Leu | Asp | Lys | Leu | Ile | Gly | Tyr | Thr | Phe | Gln | Asp | Arg | Cys | Leu | Leu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gln | Leu | Ala | Met | Thr | His | Pro | Ser | His | His | Leu | Asn | Phe | Gly | Met | Asn |
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| Pro | Asp | His | Ala | Arg | Asn | Ser | Leu | Ser | Asn | Cys | Gly | Ile | Arg | Gln | Pro |
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| Lys | Tyr | Gly | Asp | Arg | Lys | Val | His | His | Met | His | Met | Arg | Lys | Lys | Gly |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
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| Thr | Pro | Ser | Arg | Ile | Asn | His | Asn | Glu | Arg | Leu | Glu | Phe | Leu | Gly | Asp |
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|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ser | Leu | Glu | Glu | Gly | Gly | Leu | Ala | Thr | Tyr | Arg | Thr | Ala | Ile | Val | Gln |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Cys | Lys | Leu | Arg | Lys | Lys | Gln | Asn | Glu | Ser | Val | Ser | Arg | Ala | Met |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Cys | Ala | Leu | Leu | Asn | Ser | Gly | Gly | Gly | Val | Ile | Lys | Ala | Glu | Ile | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asn | Glu | Asp | Tyr | Ser | Tyr | Thr | Lys | Asp | Gly | Ile | Gly | Leu | Asp | Leu | Glu |
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| Asn | Ser | Phe | Ser | Asn | Ile | Leu | Leu | Phe | Val | Pro | Glu | Tyr | Leu | Asp | Phe |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Met | Gln | Asn | Gly | Asn | Tyr | Phe | Leu | Ile | Phe | Val | Lys | Ser | Trp | Ser | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Thr | Ser | Gly | Leu | Arg | Ile | Thr | Thr | Leu | Ser | Ser | Asn | Leu | Tyr | Lys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Asp | Ile | Thr | Ser | Ala | Lys | Val | Met | Asn | Ala | Thr | Ala | Ala | Leu | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Phe | Leu | Lys | Asp | Met | Lys | Lys | Thr | Arg | Gly | Arg | Leu | Tyr | Leu | Arg | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Leu | Leu | Ala | Lys | Arg | Pro | Cys | Val | Asp | Ile | Gln | Glu | Glu | Asn | Asn |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Lys | Glu | Lys | Leu | Thr | Phe | Thr | Glu | Ser | Thr | His | Val | Glu | Ile | Lys | Asn |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Ser | Thr | Glu | Lys | Leu | Leu | Gln | Arg | Ile | Lys | Glu | Ile | Leu | Pro | Gln |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Tyr | Val | Ser | Ala | Phe | Ala | Asn | Thr | Asp | Gly | Gly | Tyr | Leu | Phe | Ile | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Asn | Glu | Asp | Lys | Glu | Ile | Ile | Gly | Phe | Lys | Ala | Glu | Met | Ser | Asp |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |
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|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
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-4414/13211-

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09629469.072800

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| Arg | Ala | Ser | His | Leu | Phe | Asp | Asn | Pro | Ala | Thr | Val | Phe | Phe | Ser | Val |
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| Phe | Met | Ala | Leu | Trp | Ala | Ala | Thr | Phe | Met | Glu | His | Trp | Lys | Arg | Lys |
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| Gln | Met | Arg | Leu | Asn | Tyr | Arg | Trp | Asp | Leu | Thr | Gly | Phe | Glu | Glu | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Glu | Ala | Val | Lys | Asp | His | Pro | Arg | Ala | Glu | Tyr | Glu | Ala | Arg | Val |
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| Leu | Glu | Lys | Ser | Leu | Lys | Lys | Glu | Ser | Arg | Asn | Lys | Glu | Thr | Asp | Lys |
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|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Val | Ser | Ile | Ile | Phe | Met | Ile | Ala | Val | Thr | Phe | Ala | Ile | Val | Leu | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Ile | Ile | Tyr | Arg | Ile | Ser | Met | Ala | Ala | Ala | Leu | Ala | Met | Asn | Ser |
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| Val | Ile | Ile | Asn | Leu | Val | Val | Ile | Ile | Leu | Leu | Asp | Glu | Val | Tyr | Gly |
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| Cys | Ile | Ala | Arg | Trp | Leu | Thr | Lys | Ile | Glu | Val | Pro | Lys | Thr | Glu | Lys |
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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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| atttcaagtt  | ctaccataga  | ctcagttcat | cacctgtcaa  | aaaaatgaca  | tgaaatctca  | 1080 |
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| atcagtttct | cctaggaggt  | gacattttaa  | ctcagacctt  | taggagatct  | caactctcag | 1980 |
| tatcctcaga | gtcaagttga  | gggaccttat  | aagactccaa  | cagaagggaac | cacacagttt | 2040 |
| catgctgcaa | gggcaaggct  | actctatatt  | taattgatgg  | ctagacttca  | ttaagactga | 2100 |
| aatgaataac | agtgaggaaa  | ggcggggcag  | ctactagaga  | cagaagagtc  | attgtgattt | 2160 |
| agttgttttg | tgaattgctc  | atactttcaa  | gggtcatcgg  | tagcataact  | gcaccttggt | 2220 |
| gcttggagaa | agcagagcgc  | agcagctggg  | ccagcccagg  | actctctgtg  | cctggagctc | 2280 |
| ctggtaaatg | acctgccagc  | gtgtgaactg  | acgtgcccag  | cgctcccacg  | gtgggaagct | 2340 |
| gtttactctc | tcccgggagg  | acacagggtt  | agacatagtt  | gaatctataa  | tcattatcaa | 2400 |
| ccagatcaac | acgttctaac  | tgacttgctt  | gtgtcgtttt  | tttccccaac  | agtagttcaa | 2460 |
| tggcctgtga | atgttttgc   | tccagt      |             |             |            | 2486 |

<210> 10957

<211> 2114

<212> DNA

<213> Homo sapiens

<400> 10957

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| agcatcctag | tggaggacgc | ccctgtgatc  | tgccctcctt | ggcactgtgc  | ttccccagag  | 120  |
| gggtggcctc | gctgttccca | tggacatggc  | ccaggagcca | gtgaccttca  | gggacgtggc  | 180  |
| catctacttc | tcaagggagg | agtgggcgtg  | tctggaacct | agccagaggg  | ccctctaccg  | 240  |
| ggacgtgatg | ctggacaact | tcagcagtgt  | ggctgctctg | ggtgagcacg  | ggctgagcgc  | 300  |
| agcgtgagca | cagggatttt | gcagccccag  | accagacctc | gtctctcgcc  | tggaacagtg  | 360  |
| ggaggagccg | tgggttgaag | accgggagag  | acctgagttc | caggcagtgc  | agaggggacc  | 420  |
| ccggccaggg | gcaaggaagt | ctgcagacct  | caagagacct | tgtgatcatc  | cagcttgggc  | 480  |
| tcacaagaaa | accacagtgc | ggcgagaaaag | agccagggaa | ggaagcagct  | ttaggaaggg  | 540  |
| cttcaggctg | gacacggatg | acgggcagct  | tcccagagct | gctccagaaa  | ggacagacgc  | 600  |
| caagcccacg | gctttcccg  | gtcagggtgt  | cacgcagcgt | tgtgggcggc  | ggccggggccg | 660  |
| cagagagcgc | cggaagcagc | gcgagtaga   | gctgtcgttc | atctgcggca  | cgtgcgggaa  | 720  |
| ggcgtcagc  | tgccacagcc | ggctgtctgc  | tcaccagacg | gtgcacacgg  | gaaccaaggc  | 780  |
| cttcgagtgc | cccagtgctg | gccagacctt  | ccggtgggct | tcaaacctgc  | agcggccacca | 840  |
| gaagaaccac | acgcgcgaga | agcccttctg  | ctgcgaggcc | tgcgggcagg  | cgttcagcct  | 900  |
| gaaggaccgc | ctggctcagc | accgcaaggt  | ccacaccgag | cacaggccct  | actcgtgtgg  | 960  |
| cgactgtggg | aaagccttca | agcagaagtc  | caaccttctc | agacaccagc  | tgggtgcacac | 1020 |
| cggggagcgg | ccgttctact | gcgcggactg  | cggcaaagcc | ttccggacca  | aggagaacct  | 1080 |
| cagccaccac | cagagggtcc | acagcgggga  | gaagccctac | acctgtgccg  | agtgcggcaa  | 1140 |



|             |             |             |            |             |            |      |
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| ctggaactca  | aatccgtgtg  | acttcaaagc  | cacgcagcaa | ccaccacacc  | agtcatatgc | 1500 |
| tctgccctgt  | ggattgggcc  | atattgaaac  | aataaagacc | atcgagctga  | tggatttcga | 1560 |
| accacttcag  | agaaatatgt  | aaaaggctta  | catgcaaaaa | tatgttcaga  | agacaagcca | 1620 |
| aaaggccaag  | tattcttgta  | aatgtggcag  | tgatgactga | agactttatt  | aaaaatatat | 1680 |
| taagcgtgta  | gatagagagt  | gaactgctca  | taaatctagg | tggttttgtt  | tacttctatt | 1740 |
| tttctgtatg  | tttgagatat  | ttcattgctg  | attatTTTTg | ggcaacggga  | catggaagaa | 1800 |
| agttgataag  | ctcttctgaa  | ttatgactta  | ttcaggtagt | tttgcataaa  | ccagagggca | 1860 |
| gataattgct  | gatatgacct  | caacaaagag  | ataagggtga | gaaagggaatg | tttgctaatt | 1920 |
| atctacaaaag | gaaagagaaa  | ggtgagaaat  | aataagttac | ctgattctct  | gtgttctgtg | 1980 |
| cttacttggt  | cctccaaagc  | attctcccca  | gcatgtctct | tccagcttaa  | taactgaaaa | 2040 |
| cacttagtca  | acaacaatac  | actctagtgg  | aaaagagatc | ctgttagttt  | tctagacgat | 2100 |
| gcctgttggt  | ggtatatgtt  | ttccaaaatt  | atattagtgc | tcatgagctg  | gaatcgctgc | 2160 |
| actttacaca  | ctcaaaaatta | tgagaccatt  | tgcccccggt | ggtagctcag  | tttttgaggt | 2220 |
| gaacctcaaa  | agcaatcctt  | ggctaacaga  | agattcttcc | agattctagc  | aatgtttgtt | 2280 |
| caaagtgggg  | catagctggc  | cagggtgtagt | ggctcacacc | tgtaatctca  | gcactttggg | 2340 |
| aggctgaagc  | aggcagatca  | cctgagggtta | agagttcaag | accagcctgg  | ccaacatggt | 2400 |
| gaaaccctgt  | ctctagtaaa  | aatacaaaaa  | attagctagg | cgtgggtggca | cacgcctgta | 2460 |
| atcacagcta  | cttgggaggc  | tgaggcatga  | gaattgottg | aaccaggag   | gcggaggttg | 2520 |
| cagtggggccg | agattgcacc  | acttcactcc  | agcctgggtg | acagagttag  | actccatctc | 2580 |
| aaaacaaaca  | aaaaacaaaa  | agc         |            |             |            | 2603 |

<210> 10959

<211> 1244

<212> DNA

<213> Homo sapiens

<400> 10959

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| atttaaggcc  | taaaccaagt  | ccaatcatct | tcaagcagct  | ttcttccact  | cccaccacc  | 120  |
| atagagatag  | atctctcttt  | cccttacctt | cctgtagcac  | tttgttatct  | atacctctca | 180  |
| tgtgcaactta | ccccagctcc  | aattctggat | gtcttgttct  | cctagtgaga  | ttgtgagctc | 240  |
| ttcaaggtaa  | ggatcatgtc  | tttggtgctt | cttcttttgt  | gactctgaag  | tgcataacat | 300  |
| ggtgatgtgc  | cttgggaatt  | ttcaataaat | attcatggga  | aaaatgaaca  | tatcaatgta | 360  |
| ttaagctcaa  | taaagtccgt  | tttcctaaaa | acagtccttc  | attgctgaag  | tgtgaaagca | 420  |
| tgtaaaactat | aatctactgg  | atttggtatt | tttattatto  | ttttttacta  | atatatacat | 480  |
| totaacactt  | tttgaccact  | gcttagagaa | aatagaaggc  | atgcttatca  | aatttcagat | 540  |
| ggcacgaatt  | agaagtaata  | agtaatgcac | gagataacag  | aatcaaaaaac | tagacaaatt | 600  |
| agaaataagt  | aaataacatt  | taacagggat | aactacaaaa  | ttagatttta  | aaagaacagg | 660  |
| tacccaattt  | cagtatggaa  | agacatggct | aacatcagggt | tttaattggc  | tgctagactg | 720  |
| acatgagccc  | agagtggtag  | acagaaccct | gttcatagtt  | agactcaggg  | cactgagtgg | 780  |
| taggtgaaaat | attcaggctc  | caacaaggca | caggcatgaa  | tgaagattgc  | tagatggttg | 840  |
| ccagctagag  | acagatggag  | cctcaatgtc | tggtaaagtc  | tgcagtaaag  | agcagaatga | 900  |
| agtcctatac  | tttattttaac | ccgggagcta | aacaaataaa  | caatatataa  | taagaataaa | 960  |
| taggctgggt  | gcagtggctc  | atgcctgtaa | tcccagcacg  | ttgggaggcc  | gaggcaggcg | 1020 |
| gatcacctca  | gttgaggagt  | ttgagactag | cctgaccaac  | atggagaaaac | tccgtctcta | 1080 |
| ctaaaaatac  | aaaatttagcc | aggcgtggtg | gcacatgcct  | ataatcccag  | ctactcggga | 1140 |

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cagcgccggc ctctctcctg cggagaagaa gctgcggccg cacctggcca aggtgctagt 240
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<212> PRT  
<213> Homo sapiens

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<400> 10961

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Leu | Tyr | Ala | Ala | Ala | Ala | Gly | Val | Leu | Ala | Gly | Val | Glu | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Gln | Gly | Ser | Ile | Lys | Gly | Leu | Val | Tyr | Ser | Ser | Asn | Phe | Gln | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Lys | Gln | Leu | Tyr | Ala | Leu | Val | Cys | Glu | Thr | Gln | Arg | Tyr | Ser | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Leu | Asp | Ala | Val | Ile | Ala | Ser | Ala | Gly | Leu | Leu | Arg | Ala | Glu | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Leu | Arg | Pro | His | Leu | Ala | Lys | Val | Leu | Val | Tyr | Glu | Leu | Leu | Leu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Gly | Lys | Gly | Phe | Arg | Gly | Gly | Gly | Gly | Arg | Trp | Lys | Ala | Leu | Leu | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | His | Gln | Ala | Arg | Leu | Lys | Ala | Glu | Leu | Ala | Arg | Leu | Lys | Val | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Gly | Val | Ser | Arg | Asn | Glu | Asp | Leu | Leu | Glu | Val | Gly | Ser | Arg | Pro |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Gly | Pro | Ala | Ser | Gln | Leu | Pro | Arg | Phe | Val | Arg | Val | Asn | Thr | Leu | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Cys | Ser | Asp | Asp | Val | Val | Asp | Tyr | Phe | Lys | Arg | Gln | Gly | Phe | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Tyr | Gln | Gly | Arg | Ala | Ser | Ser | Leu | Asp | Asp | Leu | Arg | Ala | Leu | Lys | Gly |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Lys | His | Phe | Leu | Leu | Asp | Pro | Leu | Met | Pro | Glu | Leu | Leu | Val | Phe | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Gln | Thr | Asp | Leu | His | Glu | His | Pro | Leu | Tyr | Arg | Ala | Gly | His | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ile | Leu | Gln | Asp | Arg | Ala | Ser | Cys | Leu | Pro | Ala | Met | Leu | Leu | Asp | Pro |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Pro | Pro | Gly | Ser | His | Val | Ile | Asp | Ala | Cys | Ala | Ala | Pro | Gly | Asn | Lys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Thr | Ser | His | Leu | Ala | Ala | Leu | Leu | Lys | Asn | Gln | Gly | Lys | Ile | Phe | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Phe | Asp | Leu | Asp | Ala | Lys | Arg | Leu | Ala | Ser | Met | Ala | Thr | Leu | Leu | Ala |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Arg | Ala | Gly | Val | Ser | Cys | Cys | Glu | Leu | Ala | Glu | Glu | Asp | Phe | Leu | Ala |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Val | Ser | Pro | Ser | Asp | Pro | Arg | Tyr | His | Glu | Val | His | Tyr | Ile | Leu | Leu |
|     | 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |
| Asp | Pro | Ser | Cys | Ser | Gly | Ser | Gly | Met | Pro | Ser | Arg | Gln | Leu | Glu | Glu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Pro | Gly | Ala | Gly | Thr | Pro | Ser | Pro | Val | Arg | Leu | His | Ala | Leu | Ala | Gly |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Phe | Gln | Gln | Arg | Ala | Leu | Cys | His | Ala | Leu | Thr | Phe | Pro | Ser | Leu | Gln |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     | 350 |     |     |     |
| Arg | Leu | Val | Tyr | Ser | Thr | Cys | Ser | Leu | Cys | Gln | Glu | Glu | Asn | Glu | Asp |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |

09629469.072800

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 Pro Ala Leu Pro Ala Trp Pro His Arg Gly Leu Ser Thr Phe Pro Gly  
 385 390 395 400  
 Ala Glu His Cys Leu Arg Ala Ser Pro Glu Thr Thr Leu Ser Ser Gly  
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 <212> DNA  
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| Met | Leu | Gln | Tyr | Leu | Thr | Val | Asn | Asp | Leu | Leu | Phe | Leu | Lys | Val | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Gln | Leu | His | His | Leu | Ser | Ile | Lys | Cys | Ala | Ile | His | Val | Leu | His |
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|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Asn | Leu | Ser | Pro | Ser | Glu | Val | Val | Gln | Trp | Ser | Asn | His | Arg | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Met | Glu | Trp | Leu | Arg | Ser | Val | Asp | Leu | Ala | Glu | Tyr | Ala | Pro | Asn | Leu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Arg | Gly | Ser | Gly | Val | His | Gly | Gly | Leu | Ile | Ile | Leu | Glu | Pro | Arg | Phe |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Thr | Gly | Asp | Thr | Leu | Ala | Met | Leu | Leu | Asn | Ile | Pro | Pro | Gln | Lys | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Leu | Arg | Arg | His | Leu | Thr | Thr | Lys | Phe | Asn | Ala | Leu | Ile | Gly | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Ala | Glu | Gln | Glu | Lys | Arg | Glu | Lys | Met | Ala | Ser | Pro | Ala | Tyr | Thr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Pro | Leu | Thr | Thr | Thr | Ala | Lys | Val | Arg | Pro | Arg | Lys | Leu | Gly | Phe | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| His | Phe | Gly | Asn | Ile | Arg | Lys | Lys | Lys | Phe | Asp | Glu | Ser | Thr | Asp | Tyr |

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|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |  |
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|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |
| Phe | Pro | Lys | Pro | Leu | Thr | Ala | Leu | Pro | Phe | Thr | Thr | Gly | Ser | Gln | Asp |  |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |
| Val | Ser | Asn | Ala | Phe | Ser | Pro | Ser | Ile | Ser | Lys | Ala | Gln | Pro | Gly | Ala |  |
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| Ser | Ser | Leu | Pro | Pro | Ser | Tyr | Phe | Gly | Asn | Gln | Pro | Gln | Gly | Ile | Pro |  |
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| Gln | Pro | Gly | Tyr | Asn | Pro | Tyr | Arg | His | Thr | Pro | Gly | Ser | Ser | Arg | Ala |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |
| Asn | Pro | Tyr | Ile | Ala | Pro | Pro | Gln | Leu | Gln | Gln | Cys | Gln | Thr | Pro | Gly |  |
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|   | 645 | 650 |
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| 930   | 935  | 940 |
| Gly Arg Arg Ile Asp Tyr Val Leu Gln Glu Lys Pro Ile Glu Ser Phe |      |     |
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<400> 10974

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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Glu | Pro | Phe | Phe | Asp | Phe | Ile | Val | Ser | Ile | Asn | Gly | Ser | Arg | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asn | Lys | Asp | Asn | Asp | Thr | Leu | Lys | Asp | Leu | Leu | Lys | Ala | Asn | Val | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Pro | Val | Lys | Met | Leu | Ile | Tyr | Ser | Ser | Lys | Thr | Leu | Glu | Leu | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Thr | Ser | Val | Thr | Pro | Ser | Asn | Leu | Trp | Gly | Gly | Gln | Gly | Leu | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Val | Ser | Ile | Arg | Phe | Cys | Ser | Phe | Asp | Gly | Ala | Asn | Glu | Asn | Val |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Trp | His | Val | Leu | Glu | Val | Glu | Ser | Asn | Ser | Pro | Ala | Ala | Leu | Ala | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Arg | Pro | His | Ser | Asp | Tyr | Ile | Ile | Gly | Ala | Asp | Thr | Val | Met | Asn |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Ser | Glu | Asp | Leu | Phe | Ser | Leu | Ile | Glu | Thr | His | Glu | Ala | Lys | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Leu | Lys | Leu | Tyr | Val | Tyr | Asn | Thr | Asp | Thr | Asp | Asn | Cys | Arg | Glu | Val |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ile | Ile | Thr | Pro | Asn | Ser | Ala | Trp | Gly | Gly | Glu | Gly | Ser | Leu | Gly | Cys |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Ile | Gly | Tyr | Gly | Tyr | Leu | His | Arg | Ile | Pro | Thr | Arg | Pro | Phe | Glu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Glu | Gly | Lys | Lys | Ile | Ser | Leu | Pro | Gly | Gln | Met | Ala | Gly | Thr | Pro | Ile |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Thr | Pro | Leu | Lys | Asp | Gly | Phe | Thr | Glu | Val | Gln | Leu | Ser | Ser | Val | Asn |
| 225 |     |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |
| Pro | Pro | Ser | Leu | Ser | Pro | Pro | Gly | Thr | Thr | Gly | Ile | Glu | Gln | Ser | Leu |
|     |     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 |     |
| Thr | Gly | Leu | Ser | Ile | Ser | Ser | Thr | Pro | Pro | Ala | Val | Ser | Ser | Val | Leu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Thr | Gly | Val | Pro | Thr | Val | Pro | Leu | Leu | Pro | Pro | Gln | Val | Asn | Gln |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ser | Leu | Thr | Ser | Val | Pro | Pro | Met | Asn | Pro | Ala | Thr | Thr | Leu | Pro | Gly |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Met | Pro | Leu | Pro | Ala | Gly | Leu | Pro | Asn | Leu | Pro | Asn | Leu | Asn | Leu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Asn | Leu | Pro | Ala | Pro | His | Ile | Met | Pro | Gly | Val | Gly | Leu | Pro | Glu | Leu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Val | Asn | Pro | Gly | Leu | Pro | Pro | Leu | Pro | Ser | Met | Pro | Pro | Arg | Asn | Leu |
|     |     |     | 340 |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Pro | Gly | Ile | Ala | Pro | Leu | Pro | Leu | Pro | Ser | Glu | Phe | Leu | Pro | Ser | Phe |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Pro | Leu | Val | Pro | Glu | Ser | Ser | Ser | Ala | Ala | Ser | Ser | Gly | Glu | Leu | Leu |

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| 370 |     |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |  |  |  |  |
| Ser | Ser | Leu | Pro | Pro | Thr | Ser | Asn | Ala | Pro | Ser | Asp | Pro | Ala | Thr | Thr |  |  |  |  |
| 385 |     |     |     |     |     | 390 |     |     |     | 395 |     |     |     |     | 400 |  |  |  |  |
| Thr | Ala | Lys | Ala | Asp | Ala | Ala | Ser | Ser | Leu | Thr | Val | Asp | Val | Thr | Pro |  |  |  |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |  |  |
| Pro | Thr | Ala | Lys | Ala | Pro | Thr | Thr | Val | Glu | Asp | Arg | Val | Gly | Asp | Phe |  |  |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |  |  |
| Thr | Pro | Val | Ser | Glu | Lys | Pro | Val | Ser | Ala | Ala | Val | Asp | Ala | Asn | Ala |  |  |  |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |  |  |
| Ser | Glu | Ser | Pro |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
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 Cys Thr Ile Ala Ala Thr Ala Ser Val Val Lys Glu Lys Leu Ala Thr  
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 Glu Gly Ser Ser Gly Ala Thr Glu Lys Met Lys Lys Gly Leu Ser Asp  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ile | Asp | Cys | Asp | Val | Ile | Thr | Leu | Met | Gly | Thr | Pro | Ser | Gly | Thr | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Pro | Tyr | Asp | Gly | Thr | Lys | Ala | Arg | Leu | Tyr | Ser | Leu | Gln | Ser | Asp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Pro | Ala | Thr | Tyr | Cys | Asn | Glu | Pro | Asp | Gly | Pro | Pro | Glu | Leu | Phe | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Trp | Leu | Ser | Gln | Phe | Cys | Leu | Glu | Glu | Lys | Lys | Gly | Glu | Ile | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Leu | Leu | Val | Gly | Ser | Pro | Ser | Ile | Arg | Ala | Leu | Tyr | Thr | Lys | Met |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Pro | Ala | Ala | Val | Ser | His | Ser | Glu | Phe | Trp | His | Arg | Tyr | Phe | Tyr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Lys | Val | His | Gln | Leu | Glu | Gln | Glu | Gln | Ala | Arg | Arg | Asp | Ala | Leu | Lys |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gln | Arg | Ala | Glu | Gln | Ser | Ile | Ser | Glu | Glu | Pro | Gly | Trp | Glu | Glu | Glu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Glu | Glu | Leu | Met | Gly | Ile | Ser | Pro | Ile | Ser | Pro | Lys | Glu | Ala | Lys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Val | Pro | Val | Ala | Lys | Ile | Ser | Thr | Phe | Pro | Glu | Gly | Glu | Pro | Gly | Pro |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Gln | Ser | Pro | Cys | Glu | Glu | Asn | Leu | Val | Thr | Ser | Val | Glu | Pro | Pro | Ala |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Glu | Val | Thr | Pro | Ser | Glu | Ser | Ser | Glu | Ser | Ile | Ser | Leu | Val | Thr | Gln |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ile | Ala | Asn | Pro | Ala | Thr | Ala | Pro | Glu | Ala | Arg | Val | Leu | Pro | Lys | Asp |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Ser | Gln | Lys | Leu | Leu | Glu | Ala | Ser | Leu | Glu | Glu | Gln | Gly | Leu | Ala |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Val | Asp | Val | Gly | Glu | Thr | Gly | Pro | Ser | Pro | Pro | Ile | His | Ser | Lys | Pro |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Leu | Thr | Pro | Ala | Gly | His | Thr | Gly | Gly | Pro | Glu | Pro | Arg | Pro | Pro | Ala |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Arg | Val | Glu | Thr | Leu | Arg | Glu | Glu | Ala | Pro | Thr | Asp | Leu | Arg | Val | Phe |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Glu | Leu | Asn | Ser | Asp | Ser | Gly | Lys | Ser | Thr | Pro | Ser | Asn | Asn | Gly | Lys |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Gly | Ser | Ser | Thr | Asp | Ile | Ser | Glu | Asp | Trp | Glu | Lys | Asp | Phe | Asp |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Leu | Asp | Met | Thr | Glu | Glu | Glu | Val | Gln | Met | Ala | Leu | Ser | Lys | Val | Asp |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ala | Ser | Gly | Glu | Leu | Glu | Asp | Val | Glu | Trp | Glu | Asp | Trp | Glu |     |     |
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<212> DNA

<213> Homo sapiens

<400> 10982

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| ggctggggct  | tgtcaagtgg  | agtatagtga  | atgccaatct  | ttatttactc | cttattgatt  | 180  |
| accccaaaact | ctaaacatct  | gcataccttg  | tataaatttc  | cacttatgaa | gctgaaattg  | 240  |
| atgaatgaaa  | gcccattgcca | tttcccgggg  | attggtacat  | ttcaggagtg | aatcacaaac  | 300  |
| aattattgtc  | ataggactat  | tgaaatataa  | agggagagct  | gggagggagg | gcccagcgcc  | 360  |
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| ctaaaatggg  | aaaatacata  | tttggggggt  | atgatttgat  | ggcgacgttc | aagtgcgttg  | 540  |
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| ggtaaagaaa  | gaaatgtatc | ctatcaaatg | gtaaatagtc | tattccaaat  | gataaaaaata | 2820 |
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| ccagtattag  | gctggcggag | gccccgctgt | gcacgtcaca | cottatgggtg | ttaatggcgc  | 2940 |
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| caagcgtcgg  | ggtaaggact | cgggcacatg | agtgtgccct | gcactacctc  | tggtacatga  | 3360 |
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| attatgatga   | gtaactggag | gggcttagaa | acaaaaactg  | gatgaaagag | tatgcatgaa  | 180  |
| gaaaagcttc   | tttgataaat | gtggagtctc | tcattataaa  | tatatattca | tgaattcaca  | 240  |
| gataagtact   | taaagaacag | acagtttact | tggcctaaaa  | atattttgat | gtttactcaa  | 300  |
| aaagtacctc   | ttcaggtcct | gagaacatgg | aaaagaattg  | agtgccttta | aatacttttt  | 360  |
| agaaagtaat   | cataaaagta | aattgaatgt | caaacctatt  | tggcttctgt | tttgtgaacc  | 420  |
| tttgaactat   | atgtatgtgt | ataagggtat | acacatacat  | atatggcata | taacaagtgt  | 480  |
| acacatatatac | acataacaag | tgtagaagta | tatattacat  | acatacactc | actctgtctg  | 540  |
| gtataggcta   | attttgaaga | actcccataa | gtttctgctg  | cttctcccat | aactgctgcc  | 600  |
| accaccatca   | gaattcataa | tcaaacctaa | cctttttgtt  | tggggcacca | aatctgaaga  | 660  |
| caaaattaat   | ttgcaccagt | aaacttcaag | ctgctttctt  | tcttgaaaac | taaacgttta  | 720  |
| acgtataatg   | tctgtttgga | tactgttcca | aattgttgat  | tgcattgtgt | taatgttgca  | 780  |
| ttagagcaact  | ttgcaattgc | ataattcatt | aatgttttgt  | gagcttgcac | ttgtgagtta  | 840  |
| ttggatgatac  | agactgaatt | ttgtcaagta | tcacattgta  | catcttgcct | agatgtcgat  | 900  |
| gactgcaagt   | aataatacag | tttataatga | aactatctac  | aattcttggt | ttagcacatc  | 960  |
| tgttatccgt   | aaaacacctg | taaccagctt | ttttaattta  | ttatttgaat | tttaggatag  | 1020 |
| ogaatcacta   | atttttagtt | gctgaggttg | gcattttagt  | gattattaag | cacttctgtc  | 1080 |
| agtcttttgaa  | aaaagaacgt | attttttgtg | ctttgaagat  | ctctgaagaa | tttcttttat  | 1140 |
| aatagaatgg   | gcatgtattg | taacagtttt | atgtcaaatg  | atctgtgctg | tagaaaaaca  | 1200 |
| ttaacccttg   | ttcaaaaaag | aaatggataa | acttggcctt  | tctaagtggg | aagaatgacc  | 1260 |
| tgtaactata   | atatactgta | tgtttacatt | ttattttaat  | ttaatctctt | atgtataggg  | 1320 |
| tgataacctt   | ccccagaaac | aacagtgtat | gcgattgttt  | tctagaaact | tcttttaaagt | 1380 |
| gccacatttg   | gcagtacaaa | tgagtctgag | tgtaatagcc  | cagagattta | tatatagttg  | 1440 |
| aatgtctaaa   | atggtataaa | gtgccactgt | gtcaagttac  | agtggcttat | gtttttcata  | 1500 |
| gtaattcaaa   | tgaacttcct | atttttgata | gtaaattgtca | tttaatatga | tacttgcacat | 1560 |
| ttgagcctca   | ctgcaaaatt | agtgcagagg | agaaaaacaat | ttttaatgta | atcttgattt  | 1620 |



|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| tacctcatat  | actgtacatt  | ccaaaaactc | taaacttttt | aaagattata | gatacactac  | 1680 |
| caaacatata  | accttaaaat  | tgtataaggc | tgaatgaact | tcatacaaat | gaaaaaaatc  | 1740 |
| tcataaaaaat | acataaaacta | tgtagcaaaa | gtatctgcaa | aatccatgga | aaataaaaagt | 1800 |
| tgtatcattc  | tttttg      |            |            |            |             | 1816 |

<210> 10984  
 <211> 1394  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (337).. (867)

<400> 10984

|             |             |            |             |             |            |      |
|-------------|-------------|------------|-------------|-------------|------------|------|
| gacatcgacc  | tagtggtggt  | tgggaagtgg | gagaacctac  | ccctctggac  | tctggaagaa | 60   |
| gctcttcgga  | aacacaaagt  | cgcagatgag | gattcgggtga | aagttttaga  | caaagcaact | 120  |
| gtacctatta  | ttaaattaac  | agattctttt | actgaagtga  | aagttgatata | cagctttaat | 180  |
| gtacagaatg  | gcgtgagagc  | agctgacctc | atcaaagatt  | ttaccaagaa  | atatcctgta | 240  |
| ttgccatact  | tggtttttagt | attgaaacaa | ttcctatttg  | agagggacct  | taatgaagta | 300  |
| tttacagggtg | gaattgggttc | ttatagtctc | tttttaattgg | cagtcagttt  | ccttcagtta | 360  |
| catcccaggg  | aagatgcttg  | catccccaat | acaaactatg  | gtgttctctt  | aatagaattt | 420  |
| tttgaattat  | atggacgaca  | cttcaattat | ttaaagactg  | gcatccggat  | aaaggatggg | 480  |
| ggttcatatg  | tggccaaaga  | tgaagtacag | aaaaatatgc  | tagatggcta  | caggccatca | 540  |
| atgctttata  | tcgaagatcc  | tttacaacca | ggtaacgatg  | ttggaaggag  | ttcatatggg | 600  |
| gccatgcaag  | tgaagcaggc  | ctttgattat | gcctacgttg  | ttttgagtca  | tgctgtatca | 660  |
| ccaatagcaa  | agtactatcc  | caacaatgaa | acagaaagca  | tactaggtag  | aataattaga | 720  |
| gtaacagatg  | aagttgccac  | atatagagat | tggatatcaa  | agcagtgggg  | cttgaagaat | 780  |
| agacctgagc  | cttcatgcaa  | tggaaatgaa | actcttcatc  | aggtccagtg  | tcgtcctctt | 840  |
| ctgccacaca  | gtccagctct  | agtgacgtag | attccgatgc  | aacaccatgc  | aaaaccctga | 900  |
| aacagctgct  | ttgccgtccg  | tccactggga | accgagtagg  | gtcgcaagat  | gtatccttgg | 960  |
| agtcctctca  | ggcagttggg  | aaaatgcaaa | gcacccaaac  | cactaacaca  | tccaacagca | 1020 |
| ccaacaaatc  | tcagcatgga  | tcagcaaggc | tctttctgtt  | ttccagcaaa  | ggcttccaag | 1080 |
| gtacaactca  | aacaagccat  | ggttccttga | tgacaaacaa  | acaacatcaa  | ggcaaatcca | 1140 |
| ataatcagta  | ttaccatggc  | aaaaagagga | aacacaagag  | ggacgcgccc  | ctctcagacc | 1200 |
| tctgtagata  | gtcagcgctg  | cgcggtggac | tgtcttctct  | gtgcaatgat  | ctcatgctca | 1260 |
| ggacagttgc  | gcagggactc  | ctgggagata | ttcaggagcc  | tcacactgtt  | cagacgttga | 1320 |
| cttagcaact  | gcgttttttc  | ccagctcgcc | acagaatgga  | tcatgaagac  | tgacaactgc | 1380 |
| aaaaaaaaaca | aaac        |            |             |             |            | 1394 |

<210> 10985  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<400> 10985

09629469.072300

-4451/13211-

Met Ala Val Ser Phe Leu Gln Leu His Pro Arg Glu Asp Ala Cys Ile  
1 5 10 15  
Pro Asn Thr Asn Tyr Gly Val Leu Leu Ile Glu Phe Phe Glu Leu Tyr  
20 25 30  
Gly Arg His Phe Asn Tyr Leu Lys Thr Gly Ile Arg Ile Lys Asp Gly  
35 40 45  
Gly Ser Tyr Val Ala Lys Asp Glu Val Gln Lys Asn Met Leu Asp Gly  
50 55 60  
Tyr Arg Pro Ser Met Leu Tyr Ile Glu Asp Pro Leu Gln Pro Gly Asn  
65 70 75 80  
Asp Val Gly Arg Ser Ser Tyr Gly Ala Met Gln Val Lys Gln Ala Phe  
85 90 95  
Asp Tyr Ala Tyr Val Val Leu Ser His Ala Val Ser Pro Ile Ala Lys  
100 105 110  
Tyr Tyr Pro Asn Asn Glu Thr Glu Ser Ile Leu Gly Arg Ile Ile Arg  
115 120 125  
Val Thr Asp Glu Val Ala Thr Tyr Arg Asp Trp Ile Ser Lys Gln Trp  
130 135 140  
Gly Leu Lys Asn Arg Pro Glu Pro Ser Cys Asn Gly Asn Glu Thr Leu  
145 150 155 160  
His Gln Val Gln Cys Arg Pro Leu Leu Pro His Ser Pro Ala Leu Val  
165 170 175  
Thr

<210> 10986  
<211> 1254  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (69).. (650)

<400> 10986  
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cgtggagcat gaaaaggcag ggggcctcct ctgagcgaaa acgagcgagg ataccgtccg 120  
ggaaggccgg agcagcaaat ggatttctca tggaaagttg tgttgattca gtggaatcag 180  
ctgtgaatgc agaaagagga ggtgctgctc ggattgaatt atgttctggt ttatcagagg 240  
ggggaactac acccagcatg ggtgtccttc aagtagtgaa gcagagtgtt cagatcccag 300  
tttttgtgat gattcggcca cggggagggtg attttttgta ttcagatcgt gaaattgagg 360  
tgatgaaggc tgacattcgt cttgccaaag tttatgggtg tgatggtttg gtttttgggg 420  
cattgactga agatggacac attgacaaag agctgtgtat gtcccttatg gctatttgcc 480  
gccctctgcc agtcactttc caccgagcct ttgacatggt tcatgatcca atggcagctc 540  
tgagagacct cttaaccttg ggatttgaac gcgtgttgac cagtggatgt gacagttcag 600  
cattagaagg gctacccta ataaagcgac tcattgagca ggagggtgta taacagacag 660  
aatctacaa aggatccttg agggttcagg tgctacagaa ttccactgtt ctgctcggtc 720

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tactagagac tcgggaatga agtttcgaaa ttcattctgtt gccatgggag cctcactttc 780
ttgctcagaa tattccctaa aggtaacaga tgtgaccaag gtaaggactt tgaatgctat 840
cgcaaagaac atcctgggtgt agccagacct ctctgagaga catggatatc acaggatgaa 900
ggtagaacta taatctgcaa ttctctatga cacagottta accttcttct ctggccagga 960
cagtcgcaat ctttgtttta agtttcacat ggccatggag aatgtgcccc agaagaaaaa 1020
gaatttgaaa cagagataca gtcacttctt ttgcttagtc ttaccagtga ttgtcatcat 1080
ggttaaagct ggtctgtgct tcttccatag acagaagctt agtctgtttt cagtgggaatt 1140
aattgatgaa ctgggaaaat tttaactgca tggatatgaat tcagagtgtg acttaagggt 1200
caattcaaag cagtattttg acttttcatt tgtaaaataa aaatttccac tatt 1254
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<210> 10987  
 <211> 194  
 <212> PRT  
 <213> Homo sapiens

<400> 10987

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Met Lys Arg Gln Gly Ala Ser Ser Glu Arg Lys Arg Ala Arg Ile Pro
  1           5           10           15
Ser Gly Lys Ala Gly Ala Ala Asn Gly Phe Leu Met Glu Val Cys Val
          20           25           30
Asp Ser Val Glu Ser Ala Val Asn Ala Glu Arg Gly Gly Ala Asp Arg
          35           40           45
Ile Glu Leu Cys Ser Gly Leu Ser Glu Gly Gly Thr Thr Pro Ser Met
          50           55           60
Gly Val Leu Gln Val Val Lys Gln Ser Val Gln Ile Pro Val Phe Val
          65           70           75           80
Met Ile Arg Pro Arg Gly Gly Asp Phe Leu Tyr Ser Asp Arg Glu Ile
          85           90           95
Glu Val Met Lys Ala Asp Ile Arg Leu Ala Lys Leu Tyr Gly Ala Asp
          100          105          110
Gly Leu Val Phe Gly Ala Leu Thr Glu Asp Gly His Ile Asp Lys Glu
          115          120          125
Leu Cys Met Ser Leu Met Ala Ile Cys Arg Pro Leu Pro Val Thr Phe
          130          135          140
His Arg Ala Phe Asp Met Val His Asp Pro Met Ala Ala Leu Glu Thr
          145          150          155          160
Leu Leu Thr Leu Gly Phe Glu Arg Val Leu Thr Ser Gly Cys Asp Ser
          165          170          175
Ser Ala Leu Glu Gly Leu Pro Leu Ile Lys Arg Leu Ile Glu Gln Glu
          180          185          190
Val Val
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<210> 10988  
 <211> 1498  
 <212> DNA

09629469.072800

<213> Homo sapiens

<220>

<221> CDS

<222> (314).. (628)

<400> 10988

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aggagaatct gatttccaga gttaccacat tataatacta ttcaaaatgt cacattttta 120
gcaaagatta catgacaagg aaaaaccaga aaagtatggc ccatacacag gtaaaaaaag 180
aaattaatag aaactacccc tgaagaagca cagacttcgg atgtacaaaa caaagacttt 240
tcatcaactc ttttagatat gctagaagag ctaaaggaaa ccatggacag agaacaaaaa 300
aattaggaaa gcaatgtctc atccaatata gaatatcaat aaagagattg aaattgtaga 360
aaagaaccaa atagaaattc tggagttgaa aagtattata actaaaactg aaaattcact 420
agaggtattc agcagcagac tggagaagtc agaagaaaga atcaacaggc ttcaagatag 480
gtcaattaag attatacagt ctgaggagca gaaaggaaaa agaatgaaga aaaatgaaca 540
gagcataaaa gacctctggg actctatcaa gcataccagt atatgcatga ggggagtgccc 600
agaaggagaa gaaagagaga aaggggacata atatttgaag aaataatggt agaaaatgtc 660
ccagctttga tgaaatacat gaatctagat attcaagagg ctcaaagaac cctaaatagg 720
gtaaactcag aaagacccac accggaatgc aaaagtgagc tgggtgtggt ggcacgtgcc 780
ggtggtccca gctactcgag aggctaaggc agggaaaatcg cttgaaccca ggaggcagag 840
attgcggtga gccgggattg cgccagtgc ctcagctgg ggcacagagc gagattccat 900
ctcgaaaaaa aaaaaaaaaa aaaactattg ctgcagtcac tcagatggaa atgggggaaag 960
aataatatta actgatttca aaaaggactt gaagatgtga atcatctatt ttgctgaaga 1020
aatcttaact ctttgaaatt actttttgtt gctgttgtca tactcttagg tgccaaactg 1080
cggtaaattt tttatcagtg aagtggaagc atgtgttttg ttgttttggg aatttttatc 1140
aagtatcttc agagaagatt acttctctgt ttatcttcaa aaaccggaaa ggaagggtca 1200
aagaaaagac agtagctggc cggctcatggt ggctcatgcc tgtaatccca acactttggg 1260
aggctgaggt gggcagatca cctgaggttg ggagttcgag gccagcctga ccaacgtgga 1320
gaaatgccgt ctctactaaa gatgcaagga ttggccgggc atggtggcgc gtgcctgtga 1380
tcccagctgc tcaggaggct gaggcaagag aatcgottgg acctgggagg tggaggttgc 1440
ggtgagctga gatcacgcc a ttgcaactcca gcctgggcaa caagcgaaac tctgtctc 1498
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<210> 10989

<211> 105

<212> PRT

<213> Homo sapiens

<400> 10989

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Met Ser His Pro Ile Gln Asn Ile Asn Lys Glu Ile Glu Ile Val Glu
  1             5             10             15
Lys Asn Gln Ile Glu Ile Leu Glu Leu Lys Ser Ile Ile Thr Lys Thr
      20             25             30
Glu Asn Ser Leu Glu Val Phe Ser Ser Arg Leu Glu Lys Ser Glu Glu
      35             40             45
Arg Ile Asn Arg Leu Gln Asp Arg Ser Ile Lys Ile Ile Gln Ser Glu
      50             55             60
```

-4454/13211-

Glu Gln Lys Gly Lys Arg Met Lys Lys Asn Glu Gln Ser Ile Lys Asp  
65 70 75 80  
Leu Trp Asp Ser Ile Lys His Thr Ser Ile Cys Met Arg Gly Val Pro  
85 90 95  
Glu Gly Glu Glu Arg Glu Lys Gly Thr  
100 105

<210> 10990  
<211> 1907  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (446).. (1087)

<400> 10990  
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aaatgagaaa gatttagcaa aattccaccg tgtcttttgc caggctagag acaggggagag 120  
cagagtaaaa ccctcaggct gctgaaattt ctaggctgtt aggaagcccc tcgaattctg 180  
tgaaaatgag ggtttcttaa ctcacactga gagcggaaag gggcagaccc ttttcataac 240  
tccctcaagt gtgtgttacc tttctttacc agcatggtaa gcaacaggac atatcccagc 300  
ctcggacatg tctgtatgat ccaaggtacc caaagtcaga cagagttaa ccaagcctgg 360  
cactggcttt ctgccgcttc atgtgctttg gaaaaagcag gagaagcaat agcagcagga 420  
gtcccagca gctggagccg caagaatgaa ctgcaaagag ggaactgaca gcagctgcgg 480  
ctgcaggggc aacgacgaga agaagatgtt gaagtgtgtg gtggtggggg acggtgccgt 540  
ggggaaaacc tgccgtctga tgagctacgc caacgacgcc ttcccagagg aatacgtgcc 600  
cactgtgttt gaccactatg cagttactgt gactgtggga ggcaagcaac acttgctcgg 660  
actgtatgac accgcgggac aggaggacta caaccagctg aggccactct cctaccccaa 720  
cacggatgtg tttttgatct gcttctctgt cgtaaacctt gcctcttacc acaatgtcca 780  
ggaggaatgg gtccccgagc tcaaggactg catgcctcac gtgccttatg tcctcatagg 840  
gacccagatt gatctccgtg atgacccaaa aaccttggcc cgtttgctgt atatgaaaga 900  
gaaacctctc acttacgagc atggtgtgaa gctcgcaaaa gcgatcggag cacagtgcta 960  
cttggaatgt tcagctctga ctcagaaagg tctcaaagcg gtttttgatg aagcaatcct 1020  
caccattttc caccocaaga aaaagaagaa acgctgttct gagggtcaca gctgctgttc 1080  
aattatctga ggttgtctgg gacctgcctc caccocatcc agggatgaga atggcagcca 1140  
atctctgtgg ccaagctcca gccaaaaagg agggcacgac cagaaaaggaa ctccctttgc 1200  
acggaggctt gccccatcac cctctgagcc ctcccaacac agcacactag tcagcccact 1260  
gccacgacct ccctgccagc cagaagcatc cgtactgcac gctgtctgag aatgctgggc 1320  
ctggattgca gacagtgcgg ctgctgatcg catcaaaaac aaagtcaaag gccatctcac 1380  
attttacaaa tcccagctc atgaacgtga agctgatagg aaatcacccc aggggaacccg 1440  
aaaaagaaac ttgattcctc tattgctggc ctactttgat gtcttttata aaacttggga 1500  
ctacaatact aacctttttt tctgaatctg ctgttctacc catgtgtctc acattcattt 1560  
gtattatttc aagaaatgta ctaatttcca gttcactcag gccttactaa tccataccaa 1620  
attagcctaa agacaaggca ttttatattc atttctatct tcagcatgtt tctaccaaag 1680  
ctattagaac caacacgtac ctctgaatgc ccgattataa gaagacatga gaagacttta 1740  
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attgttgcag gtccacattt ttgccaaaga tacacttat agatgcttag tagtggcctg 1860  
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<210> 10991  
<211> 214  
<212> PRT  
<213> Homo sapiens

<400> 10991  
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Asp Glu Lys Lys Met Leu Lys Cys Val Val Val Gly Asp Gly Ala Val  
20 25 30  
Gly Lys Thr Cys Leu Leu Met Ser Tyr Ala Asn Asp Ala Phe Pro Glu  
35 40 45  
Glu Tyr Val Pro Thr Val Phe Asp His Tyr Ala Val Thr Val Thr Val  
50 55 60  
Gly Gly Lys Gln His Leu Leu Gly Leu Tyr Asp Thr Ala Gly Gln Glu  
65 70 75 80  
Asp Tyr Asn Gln Leu Arg Pro Leu Ser Tyr Pro Asn Thr Asp Val Phe  
85 90 95  
Leu Ile Cys Phe Ser Val Val Asn Pro Ala Ser Tyr His Asn Val Gln  
100 105 110  
Glu Glu Trp Val Pro Glu Leu Lys Asp Cys Met Pro His Val Pro Tyr  
115 120 125  
Val Leu Ile Gly Thr Gln Ile Asp Leu Arg Asp Asp Pro Lys Thr Leu  
130 135 140  
Ala Arg Leu Leu Tyr Met Lys Glu Lys Pro Leu Thr Tyr Glu His Gly  
145 150 155 160  
Val Lys Leu Ala Lys Ala Ile Gly Ala Gln Cys Tyr Leu Glu Cys Ser  
165 170 175  
Ala Leu Thr Gln Lys Gly Leu Lys Ala Val Phe Asp Glu Ala Ile Leu  
180 185 190  
Thr Ile Phe His Pro Lys Lys Lys Lys Lys Arg Cys Ser Glu Gly His  
195 200 205  
Ser Cys Cys Ser Ile Ile  
210

<210> 10992  
<211> 2504  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (319).. (870)

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<400> 10992

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| gatgcttcta  | aattgtgato  | actttcagga | ggcagcactg  | cagctggaag  | gatgagagcg  | 60   |
| acctagggtg  | gagtggctga  | ggcggcagat | ctgaacttgc  | ggaggataag  | aacccaaact  | 120  |
| ttgactacat  | cagtccgcac  | ctcgccagtg | aagcaaaagga | cgggttatct  | tttttttttt  | 180  |
| ctaagactca  | aacttgggca  | cttgatccct | tttcttggat  | tgttttggag  | gagacgattt  | 240  |
| gctggcaacg  | ttgggaacag  | tcaggactgt | gttgtaactc  | ttacttttaa  | agcgacagta  | 300  |
| gaggatcaga  | cttttttaaat | gtttggaatt | caagatactt  | taggaagagg  | accaactctg  | 360  |
| aaagagaaat  | cgctgggctg  | ggagatggat | tcggtcaggt  | cctgggtccg  | gaatgtcgga  | 420  |
| gtggtggacg  | ctaattgtcg  | cgcgacagag | ggggtcgccc  | tgtcccgggc  | ccactttgag  | 480  |
| aaacagcctc  | cttccaactt  | gaggaaatcc | aacttctttc  | acttcgtcct  | ggcgctctat  | 540  |
| gacaggcagg  | gccagccggt  | ggagatcgag | cggacggcct  | tcgtggactt  | tgtggagaat  | 600  |
| gacaaagaac  | aaggcaacga  | gaagaccaac | aacggcactc  | actacaagtt  | acagctcctc  | 660  |
| tacagcaacg  | gtgtccgcac  | ggaacaggac | ctctatgtca  | ggctcatcga  | ctcggtcacc  | 720  |
| aagcagccca  | tcgcttacga  | gggacagaat | aagaatccgg  | aaatgtgccg  | agttctcctg  | 780  |
| acgcacgaag  | tgatgtgtag  | tcgatgtctg | gaaaagaaaa  | gctgtggaaa  | ccgaaatgag  | 840  |
| actccatcgg  | accagtcct   | aattgacagg | tagggggaaa  | aagtgatttt  | tcaatcattt  | 900  |
| ttggttcctt  | ttcttcatga  | acctcaactc | tgagtactga  | tccatggagc  | tttgctgtca  | 960  |
| agttggtttc  | atgttatttc  | aagtcactaa | ggctcatccaa | caaaggcctc  | ctcatgctgg  | 1020 |
| cctttcttgg  | aagaagccag  | aatcttccct | tggaaacagt  | gtctctaaat  | ctgtggtgga  | 1080 |
| gtcttttcca  | ggtgcaccag  | cttcagccta | ataagtagta  | tgtgtggtgc  | aggatataag  | 1140 |
| cgatggcacc  | tctcctttcg  | ggcaggggat | ggtctcaatc  | agttttctag  | aagaagcaat  | 1200 |
| gtgccccaa   | tttaagtggca | cccactttat | tattctcggt  | gattgctgct  | tggctggaag  | 1260 |
| attatcaatt  | cagattacgg  | tttaggggat | tatggcaagc  | tctctgctgt  | gttcagggag  | 1320 |
| attcctttct  | accatggagg  | attgcattct | gtgttctatg  | ttatattcag  | aatgggaaag  | 1380 |
| attcctttgg  | acaagacact  | aattcactga | aatgtgattt  | aggcatcctc  | agctgtctgt  | 1440 |
| tttttgtgat  | tggaaacaga  | acttacaac  | caatgaagaa  | ataccaaatt  | aacttcaga   | 1500 |
| aatcatgtaa  | tttttaagaa  | accccatatt | cccatcccta  | atttttttct  | ctttcgtaa   | 1560 |
| aaaacggaat  | aattccctat  | tgtttctttc | tttgggtttt  | cacatttcta  | gccaggtcct  | 1620 |
| gaaatggatt  | ggagagacca  | cagtcctcaa | agttgttatt  | ccaatattcc  | aacgaattct  | 1680 |
| cagttgggag  | aatggaacct  | ctggcattct | tccagaaaag  | ccagcttggg  | ttcttcgttg  | 1740 |
| aaagtatagc  | atagcctagg  | aactgaggag | gctggaattc  | tgatcttgtc  | ctagcttctg  | 1800 |
| accttggaca  | aagcactcag  | catctttgtt | cttcaataat  | ataatgatgg  | gttaggaggt  | 1860 |
| gcagtcaactg | ctgtaggctt  | caagaggcta | ctgaaatata  | aatggcagct  | ttgcagtgtt  | 1920 |
| ctctgagatg  | cttgaagagg  | atgatgggca | aatataaaat  | gtttgttgga  | tgtgtatagt  | 1980 |
| gtctttgcca  | ttttagaagg  | ttccagttag | ctgcgtttta  | gggagctatt  | ggggttgctc  | 2040 |
| tggtcttttt  | tgaagtaca   | gagaagctta | aatatataga  | gttgcaagga  | ctctttggag  | 2100 |
| tcagtcatctt | tcctcatcta  | gctgaaaaat | ctgaacgctg  | agcgggtggca | tgacttgccc  | 2160 |
| gtggttgtgc  | agctggttgg  | gcagagctgg | cattagaaca  | cagctgtcct  | tacttcagg   | 2220 |
| ctgggtgccg  | taactcacgc  | ctgtaatccc | agcacttagg  | aagaccgagg  | tgggcagatc  | 2280 |
| acttgaggtc  | gggggtttgc  | gaccagcctg | gtcaacatag  | tggacccag   | actttactaa  | 2340 |
| aaatacaaaa  | attagtcagg  | catggtggca | catgcctgta  | atcccagcta  | cttggggaggc | 2400 |
| tgaggcagga  | aaatcgcttg  | aacccaggag | gcacagattg  | cagttagcca  | agatcacgcc  | 2460 |
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<210> 10993

<211> 184

09629469.072800

<212> PRT

<213> Homo sapiens.

<400> 10993

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      20             25             30
Val Gly Val Val Asp Ala Asn Val Ala Ala Gln Ser Gly Val Ala Leu
      35             40             45
Ser Arg Ala His Phe Glu Lys Gln Pro Pro Ser Asn Leu Arg Lys Ser
      50             55             60
Asn Phe Phe His Phe Val Leu Ala Leu Tyr Asp Arg Gln Gly Gln Pro
      65             70             75             80
Val Glu Ile Glu Arg Thr Ala Phe Val Asp Phe Val Glu Asn Asp Lys
      85             90             95
Glu Gln Gly Asn Glu Lys Thr Asn Asn Gly Thr His Tyr Lys Leu Gln
      100            105            110
Leu Leu Tyr Ser Asn Gly Val Arg Thr Glu Gln Asp Leu Tyr Val Arg
      115            120            125
Leu Ile Asp Ser Val Thr Lys Gln Pro Ile Ala Tyr Glu Gly Gln Asn
      130            135            140
Lys Asn Pro Glu Met Cys Arg Val Leu Leu Thr His Glu Val Met Cys
      145            150            155            160
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Ser Asp Pro Val Ile Ile Asp Arg
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<210> 10994

<211> 1349

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (148).. (459)

<400> 10994

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cgccgttaca aagcgaacaa ggacgtaatg gagaaggcag cagaagtcta taccggctc 180
aagtcgcggg tcctcgccc aaagatcgag gcggtgcaga aagtgaacaa ggctgggatg 240
gagaaggaga aggccgagga gaagctggcc ggggaggagc tggccgggga ggaggcccc 300
caggagaagg cggaggacaa gccagcacc gatctctcag cccagtgaa tggcgaggcc 360
acatcacaga agggggagag cgcagaggac aaggagcacg aggagggtcg ggactcggag 420
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09629469.072800



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agctgacccc agggcccccgc tggctggcac ttccggcggc ccctacagag aggcagctcc 660
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<210> 10995  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<400> 10995

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Lys | Ala | Ala | Glu | Val | Tyr | Thr | Arg | Leu | Lys | Ser | Arg | Val | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Pro | Lys | Ile | Glu | Ala | Val | Gln | Lys | Val | Asn | Lys | Ala | Gly | Met | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Glu | Lys | Ala | Glu | Glu | Lys | Leu | Ala | Gly | Glu | Glu | Leu | Ala | Gly | Glu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |
| Glu | Ala | Pro | Gln | Glu | Lys | Ala | Glu | Asp | Lys | Pro | Ser | Thr | Asp | Leu | Ser |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Pro | Val | Asn | Gly | Glu | Ala | Thr | Ser | Gln | Lys | Gly | Glu | Ser | Ala | Glu |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |
| Asp | Lys | Glu | His | Glu | Glu | Gly | Arg | Asp | Ser | Glu | Glu | Gly | Pro | Arg | Cys |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     |     | 95  |
| Gly | Ser | Ser | Glu | Asp | Leu | His | Glu |     |     |     |     |     |     |     |     |
|     |     |     | 100 |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 10996  
 <211> 1876  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (218).. (1036)

<400> 10996

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tattagagta attgtcatta gatcacctgt gttgcagata ggatcactct ttatcattac 180
tgctgtaaac cctgctacaa ttggaagaga aaaggatatg gaacatactc tccgaatccc 240
tgaagttagt gtcagtaagt ttcatgcaga aatttatttt gacctgactc tacaaagtta 300
tgtccttggt gatcaaggca gtcaaaatgg cacaattggt aatggaaaac agattcttca 360
gccgaaaact aaatgtgacc cttacgtact tgagcatgga gatgaagtca aaattggaga 420
aactgtotta tcctttcaca ttcatcctgg cagtgtatcc tgtgatggct gtgaaccagg 480
gcaggtaga gccacacctc gccttgataa gaaagatgaa tcttttggtg gtccaacact 540
aagtaaggag gaaaaagagt tggaagaag aaaagaatta aagaaaatac gagtaaaata 600
tggtttacag aatacagaat acgaagatga aaagacattg aagaatccaa aatataaaga 660
tagagctgga aaacgtaggg agcagggttg aagtgaagga actttccaaa gagatgatgc 720
tcctgcatct gttcattctg aaattactga tagcaacaaa ggtcgggaaga tgttgagaga 780
gatgggttg aagaaaggag agggcctggg gaaggatggt ggaggaatga aaacgccgat 840
ccagcttcag cttcggcgaa cacatgcagg cttgggggaca ggcaaaccat cctcatttga 900
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<210> 10997

<211> 273

<212> PRT

<213> Homo sapiens

<400> 10997

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      20            25            30
Gln Gly Ser Gln Asn Gly Thr Ile Val Asn Gly Lys Gln Ile Leu Gln
      35            40            45
Pro Lys Thr Lys Cys Asp Pro Tyr Val Leu Glu His Gly Asp Glu Val

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-4460/13211-

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| Lys Ile Gly Glu Thr Val Leu Ser Phe His Ile His Pro Gly Ser Asp |     |     |
| 65  | 70  | 75  |
| Thr Cys Asp Gly Cys Glu Pro Gly Gln Val Arg Ala His Leu Arg Leu |     |     |
| 85  | 90  | 95  |
| Asp Lys Lys Asp Glu Ser Phe Val Gly Pro Thr Leu Ser Lys Glu Glu |     |     |
| 100   | 105 | 110 |
| Lys Glu Leu Glu Arg Arg Lys Glu Leu Lys Lys Ile Arg Val Lys Tyr |     |     |
| 115   | 120 | 125 |
| Gly Leu Gln Asn Thr Glu Tyr Glu Asp Glu Lys Thr Leu Lys Asn Pro |     |     |
| 130   | 135 | 140 |
| Lys Tyr Lys Asp Arg Ala Gly Lys Arg Arg Glu Gln Val Gly Ser Glu |     |     |
| 145   | 150 | 155 |
| Gly Thr Phe Gln Arg Asp Asp Ala Pro Ala Ser Val His Ser Glu Ile |     |     |
| 165   | 170 | 175 |
| Thr Asp Ser Asn Lys Gly Arg Lys Met Leu Glu Lys Met Gly Trp Lys |     |     |
| 180   | 185 | 190 |
| Lys Gly Glu Gly Leu Gly Lys Asp Gly Gly Gly Met Lys Thr Pro Ile |     |     |
| 195   | 200 | 205 |
| Gln Leu Gln Leu Arg Arg Thr His Ala Gly Leu Gly Thr Gly Lys Pro |     |     |
| 210   | 215 | 220 |
| Ser Ser Phe Glu Asp Val His Leu Leu Gln Asn Lys Asn Lys Lys Asn |     |     |
| 225   | 230 | 235 |
| Trp Asp Lys Ala Arg Glu Arg Phe Thr Glu Asn Phe Pro Glu Thr Lys |     |     |
| 245   | 250 | 255 |
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 <211> 2775  
 <212> DNA  
 <213> Homo sapiens

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 <222> (2355).. (2618)

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 aagttttatca ttttttttaa ttttttcacc tgtgcttttg gtgtcatcta aggaggtttt 240  
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000220" 09462960

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<210> 10999  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 10999

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| Met | Val | Pro | Gly | Phe | Gln | Pro | Gln | Phe | Ser | Thr | Ala | Val | Gly | Glu | Ile |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Trp | Pro | Gly | Gln | Ala | Thr | Leu | Leu | Leu | Gln | Ala | Gln | Pro | Cys | Ser | Ser |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Thr | His | Leu | Cys | Ser | Leu | Pro | Leu | Cys | Arg | Thr | His | Lys | Thr | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| His | Cys | Tyr | Arg | Ile | Thr | Tyr | Arg | His | Met | Glu | Arg | Thr | Leu | Ser | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Arg | Glu | Val | Arg | His | Ile | His | Gln | Ala | Leu | Gln | Glu | Ala | Ala | Val | Gln |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Leu | Leu | Gly | Val | Glu | Arg | Phe |     |     |     |     |     |     |     |     |     |
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<210> 11000  
 <211> 1705  
 <212> DNA  
 <213> Homo sapiens

<400> 11000

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| ctggaaaaat  | gttttgatgt  | gttggctttc | cacctcctga | tttttgTgtg | tggctccttc | 120  |
| ccctaccccc  | tcccgccccc  | ccaaatgttg | ttgtacactg | cottgtctgt | ttcatttcca | 180  |
| cgtgtgggtt  | cactgaccac  | attagctggg | agctcctggg | attgtatgct | tcctatccag | 240  |
| aatttgTtcc  | atagaaaacc  | tgtgtcttca | acatacttgc | tttgaaatta | ttttgatctg | 300  |
| tatcagcagg  | aataggtttt  | gagatcctgg | atattaactt | ctgggtgcc  | ctctctctag | 360  |
| aagctaattg  | actgatttgt  | ggtggaggcg | agatgagagt | ctatacatTT | gacctatttc | 420  |
| acagagctta  | ccttgcaagc  | tattgaaatg | caaatacaga | ctagcttaga | gattctaaga | 480  |
| attcacacat  | tcagttcttt  | gtttttttct | gaaaaataag | cattcaaatt | tcatgcacat | 540  |
| tctattattc  | atgtgcctta  | tatttaggtt | ccgcttgTat | gtctagataa | atcttatcac | 600  |
| cattatttaa  | aatttcatga  | atgaaacttt | gcacttttaa | tactaacact | agcctagacc | 660  |
| aatcaaaaata | atttgaaatg  | cagcccttaa | atgaaactct | ccgtgtgtct | gtatatatac | 720  |
| atttacatat  | acacctttgc  | caatgcctta | tctaccactg | tcttttaaat | ctactccatg | 780  |
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| ctttggaatg  | tgctgcttaa  | aaggcttcta | tgagatagca | cattaatgtc | aaagcacatt | 900  |
| ttctttgttt  | gatagttgtc  | acgttagtgg | tcctgaaaca | gaatactctt | ttcgtgtctg | 960  |
| tccattcatt  | tgtattttta  | agtcatccac | cacttttcat | ttgtcaagca | cttgaaaaag | 1020 |
| aatatttgtt  | gtcagcaaga  | tagttcctct | gtcatttgat | ctacaagtta | gccttcctga | 1080 |
| acagttaatg  | ccttcagaat  | cctttttttc | tctgagctat | ggtcgcttaa | cagagaggag | 1140 |
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| ggtgctagca  | ctaacatttt  | ctgatacagt | cttcaatatg | tgatgaggct | gagtatccgg | 1260 |
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| ccatagagtg  | ttgatgatgg  | tttgaattga | gtcactttct | gtcactttct | gggagccata | 1380 |
| tcaaaaaaga  | ctttaccagt  | tctctttgct | gcctttgaag | ttctgtaatt | tctaggtagg | 1440 |
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| cagagcgaga  | ctccatctca  | aaaaataaaa | caacaacaac | aacaaaaaca | caaatattag | 1560 |
| ctggagggtg  | tgggtgggagc | ctgtaatccc | agctacttgg | gaggctgagg | cactagaatc | 1620 |
| acttgaacta  | gggaggcgga  | agttgcagtg | agctgagatt | gtgccactac | tctccagcct | 1680 |

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1705

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tgagctggga gaaagatggc ggccagccgt cgacaggatt tggcccagct catgaattcg 180  
agcggctctc ataaagatct ggctggcaag tatcgtcaga tcctggaaaa agccattcag 240  
ttatctggag cagaacaact agaagctttg aaagcttttg tggaagcaat ggtaaatgag 300  
aatgtcagtc tcgtgatctc gcggcagttg ctgactgatt tttgcacaca tcttcctaac 360  
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aatgaatcaa ccaatgaaca attacagata cattataagg tatgctatgc acgtgttctt 720  
gattatagaa gaaaattcat tgaagctgca caaaggatca atgagctctc ttacaagaca 780  
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<212> PRT  
<213> Homo sapiens

<400> 11002

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ala | Ala | Val | Arg | Gln | Asp | Leu | Ala | Gln | Leu | Met | Asn | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Ser | His | Lys | Asp | Leu | Ala | Gly | Lys | Tyr | Arg | Gln | Ile | Leu | Glu | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Ile | Gln | Leu | Ser | Gly | Ala | Glu | Gln | Leu | Glu | Ala | Leu | Lys | Ala | Phe |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Glu | Ala | Met | Val | Asn | Glu | Asn | Val | Ser | Leu | Val | Ile | Ser | Arg | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Leu | Thr | Asp | Phe | Cys | Thr | His | Leu | Pro | Asn | Leu | Pro | Asp | Ser | Thr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ala | Lys | Glu | Ile | Tyr | His | Phe | Thr | Leu | Glu | Lys | Ile | Gln | Pro | Arg | Val |
|     |     |     |     | 85  |     |     |     |     |     | 90  |     |     |     | 95  |     |
| Ile | Ser | Phe | Glu | Glu | Gln | Val | Ala | Ser | Ile | Arg | Gln | His | Leu | Ala | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Tyr | Glu | Lys | Glu | Glu | Asp | Trp | Arg | Asn | Ala | Ala | Gln | Val | Leu | Val |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Gly | Ile | Pro | Leu | Glu | Thr | Gly | Gln | Lys | Gln | Tyr | Asn | Val | Asp | Tyr | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Glu | Thr | Tyr | Leu | Lys | Ile | Ala | Arg | Leu | Tyr | Leu | Glu | Asp | Asp | Asp |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Pro | Val | Gln | Ala | Glu | Ala | Tyr | Ile | Asn | Arg | Ala | Ser | Leu | Leu | Gln | Asn |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Glu | Ser | Thr | Asn | Glu | Gln | Leu | Gln | Ile | His | Tyr | Lys | Val | Cys | Tyr | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Val | Leu | Asp | Tyr | Arg | Arg | Lys | Phe | Ile | Glu | Ala | Ala | Gln | Arg | Tyr |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Asn | Glu | Leu | Ser | Tyr | Lys | Thr | Ile | Val | His | Glu | Ser | Glu | Arg | Leu | Glu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ala | Leu | Lys | His | Ala | Leu | His | Cys | Thr | Ile | Leu | Ala | Ser | Ala | Gly | Gln |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | Arg | Ser | Arg | Met | Leu | Ala | Thr | Leu | Phe | Lys | Asp | Glu | Arg | Cys | Gln |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gln | Leu | Ala | Ala | Tyr | Gly | Ile | Leu | Glu | Lys | Met | Tyr | Leu | Asp | Arg | Ile |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Ile | Arg | Gly | Asn | Gln | Leu | Gln | Glu | Phe | Ala | Ala | Met | Leu | Met | Pro | His |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gln | Lys | Ala | Thr | Thr | Ala | Asp | Gly | Ser | Ser | Ile | Leu | Asp | Arg | Ala | Val |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Glu | His | Asn | Leu | Leu | Ser | Ala | Ser | Lys | Leu | Tyr | Asn | Asn | Ile | Thr |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Phe | Glu | Glu | Leu | Gly | Ala | Leu | Leu | Glu | Val | Pro | Ala | Ala | Lys | Ala | Glu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Lys | Ile | Ala | Ser | Gln | Met | Ile | Thr | Glu | Gly | Arg | Met | Asn | Gly | Phe | Ile |
|     |     |     | 340 |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Asp | Gln | Ile | Asp | Gly | Ile | Val | His | Phe | Glu | Thr | Arg | Glu | Ala | Leu | Pro |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |

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-4465/13211-

Thr Trp Asp Lys Gln Ile Gln Ser Leu Cys Phe Gln Val Asn Asn Leu  
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385 390 395 400  
Glu Ala Gln Met Ala Gln  
405

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<212> DNA  
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<222> (5).. (529)

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atthttgtggt gaacacgctg gagccgcgga ggaagaagat gctcggaaaa gaatcctgtg 180  
tccttttagat ccaaaacaca cagtatatga agatcaacta gcaaagcatt tgaaaaaatg 240  
taactcaaga gagaaaccaa aacctgattt ctatattcaa gatattaatg caggcttaag 300  
agatgaaaca gaaatacctg aacaattagt tccaatttct tctctatctg aagagcagtt 360  
ggaaaagtta attagaaat tgagaaaagc aagtgaaggo ttgaattcta cacttaaaga 420  
tcataattatg tcccatccag cattacacga tgcacttaat gaccctaaaa atggcgattc 480  
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gggcatggat gtgattctga gtaccgtata ttaaataatt aaaggcaaga gagaaaaatt 720  
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ccatttatgg aaactgtatg attccaccta gaagctactg attttttaga gtagttgctt 1500  
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<210> 11004

09629469.072800



<211> 175  
<212> PRT  
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<400> 11004

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Thr | Ser | Ala | Thr | Ser | Pro | His | Ala | Pro | Gly | Phe | Pro | Ala | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Arg | Cys | Gly | Tyr | Tyr | Val | Glu | Lys | Lys | Lys | Arg | Phe | Cys | Arg | Met |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Val | Ala | Ala | Gly | Lys | Arg | Phe | Cys | Gly | Glu | His | Ala | Gly | Ala | Ala |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Glu | Glu | Glu | Asp | Ala | Arg | Lys | Arg | Ile | Leu | Cys | Pro | Leu | Asp | Pro | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| His | Thr | Val | Tyr | Glu | Asp | Gln | Leu | Ala | Lys | His | Leu | Lys | Lys | Cys | Asn |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ser | Arg | Glu | Lys | Pro | Lys | Pro | Asp | Phe | Tyr | Ile | Gln | Asp | Ile | Asn | Ala |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Leu | Arg | Asp | Glu | Thr | Glu | Ile | Pro | Glu | Gln | Leu | Val | Pro | Ile | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Leu | Ser | Glu | Glu | Gln | Leu | Glu | Lys | Leu | Ile | Lys | Lys | Leu | Arg | Lys |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ala | Ser | Glu | Gly | Leu | Asn | Ser | Thr | Leu | Lys | Asp | His | Ile | Met | Ser | His |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Pro | Ala | Leu | His | Asp | Ala | Leu | Asn | Asp | Pro | Lys | Asn | Gly | Asp | Ser | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Thr | Lys | His | Leu | Lys | Gln | Gln | Val | Cys | Leu | Gly | Tyr | Ser | Asn | Tyr |     |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |

<210> 11005  
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<212> DNA  
<213> Homo sapiens

<400> 11005

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| ggtgattgta  | caagtgttgt  | caattttctag | tttatactta  | atatttccttt | ttctcacctg  | 120 |
| ctacttacat  | caccaaacac  | tcacacagtc  | tgattataaa  | atattgagac  | tgacagtcac  | 180 |
| atagaaccag  | tttcataacc  | tcattaccat  | gtacacccag  | ctcagtagct  | ctccagactg  | 240 |
| caaacccttt  | gagggttccg  | gcctggcctt  | tctttatatt  | tggggaaatg  | ttagagaaaa  | 300 |
| cagcatctaa  | aactggaaac  | cttgacttaa  | attagccatt  | tottotcact  | ctaaattgag  | 360 |
| agacatgagt  | tctaaatggc  | agagaccatt  | tataggagaa  | tgccaaagag  | agcagaagag  | 420 |
| aatgggaagc  | ctttcccaca  | gcagaaactt  | tccacagcag  | agacaataga  | ctgatcccta  | 480 |
| tcacatcccc  | taaatatttc  | ttctgacacc  | tgatggggtt  | ttgacaatca  | tagaagcaaa  | 540 |
| ctggacagag  | tgccattttac | ttctgtgcca  | tttcatactg  | gggcttttga  | cagaatagga  | 600 |
| aatgcattgt  | ctaggttcct  | ctagacctct  | aggttccctt  | ctattctcag  | aagaaactta  | 660 |
| agttatgctt  | gagtataact  | tgagtagggg  | ccaggtaggg  | gcagcattgt  | gggattcagc  | 720 |
| cacaatgggtg | tgattcaatc  | tgccctctgg  | tctttgggtc  | catttaacgt  | gcatttattg  | 780 |

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|            |            |             |             |            |             |      |
|------------|------------|-------------|-------------|------------|-------------|------|
| agcagctaac | ttgagtcago | actgtactag  | gtgctatata  | ccagggatgt | acaaaacaga  | 840  |
| tttgatgttg | ctgattaaga | aagtatctgt  | acaagttaca  | aactcacctc | ccagagcact  | 900  |
| tgccctggag | ccctggagct | tgccccagtc  | ttcctccttt  | ctaagatcac | cacttaccca  | 960  |
| actgggaaga | gatcttggtc | tgcttgtttt  | ccatacctct  | ctggtaggag | gcaaagcgat  | 1020 |
| ctgcttgaaa | atatgtctga | aagataatca  | gcaaaataatt | tcaaactctg | gaactgtcat  | 1080 |
| tatgaattta | ctgccattag | attgtattga  | ggcccttgaa  | gtcatggata | accagaaggg  | 1140 |
| ggaatttgaa | gattccattt | aataaaaaga  | agttgataca  | aagaagctaa | gatataaat   | 1200 |
| aaaatttcat | agttggaaga | gaacatgatg  | cttctgtatt  | ccaattactg | attatacctt  | 1260 |
| ttgttcatag | tcttttaaat | ctgagctctt  | tggcaatccc  | atttcagccg | ctggctctcat | 1320 |
| taggtaccat | cctttctccc | tcagaattaa  | ttttcgcttc  | tggaatcaga | atgtcattct  | 1380 |
| taagggtctc | ccttattagt | accttttagga | ccaagttcaa  | actacctagc | aggacataac  | 1440 |
| aggcccttca | caatataact | ccattctatt  | attttgacct  | cttctctcca | acctccttta  | 1500 |
| tgcactagcc | acagtaagtg | tctgctatto  | acacttcagc  | acatatgtct | ctatgctttc  | 1560 |
| atgcctctgt | agaagtgtgt | ccttctgcct  | gcaacgcctc  | tcacctccac | actcaccaca  | 1620 |
| attgcaccct | ccttcacttc | cctttccatcc | tttgaactct  | tgcctatgat | cctttttagt  | 1680 |
| ttcataagca | tgatgattga | gtgttcatac  | acatgtgtga  | ggtatgtcgc | cccaaacct   | 1740 |
| tttatgacat | tggcacatta | cctgtctgac  | atgaaagaaa  | aataataata | aaaattttta  | 1800 |
| aatggggcag | ccaggcgcca | tggctcacgc  | ctgtaatccc  | agcacttttg | gaggccgagg  | 1860 |
| cgggcgagtc | acgagatcag | gagatcgaga  | ccatcctggc  | taacacaatg | aaacaccgtc  | 1920 |
| tctactaaaa | atacagaaaa | ttagccaggc  | gtgggtggcg  | gcacctgtag | tcccagctac  | 1980 |
| tcgggaggct | gaggcaggag | aatggcgtga  | acctggggagg | cagagcttgc | agtgatccaa  | 2040 |
| gatagcacca | ctgcactcct | gcctgggcaa  | aagagcaaga  | ctccatctc  |             | 2089 |

<210> 11006

<211> 1709

<212> DNA

<213> Homo sapiens

<400> 11006

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| agctcagagt  | taaccattgt | gcccctaagc  | ctaacagcag | ctggagctga | tagcctttca | 120  |
| cagggcctgc  | cagcagcctt | ggagaaaacca | cgagcccatt | taacaggcag | gacgctgagg | 180  |
| ctctgataac  | aagtgcggtt | tcggacaaga  | gcgggagagg | agatggagaa | acagaccctc | 240  |
| gtgcgtggct  | ggtggggatg | gaacaaggcc  | cagcctggca | gcttctcaca | tggtaaacac | 300  |
| ggaattacca  | tagggcccag | caatcccact  | cctggggata | gacccacag  | aactgacagc | 360  |
| agggactgaa  | agaggtgttt | gcacacacaa  | gtgcacagcg | gcatgattcc | caacagcccc | 420  |
| agggtggaag  | ccaccccagg | cgcccatcag  | tggataaaca | cagcatggtc | caaccagaca | 480  |
| gtggaatatt  | acgcagccat | gaaaaggaag  | ggaatccaga | cacgggctac | agcgtggatg | 540  |
| aaccttgagg  | acctcacgct | cagttagagg  | atccagacac | aaaaggacgt | atcctgtgtg | 600  |
| atcccaactcc | tgggaagtcc | ctagagtctg  | cagattcaca | gagacaggaa | ataggatgag | 660  |
| tgagtgccag  | gggctgggga | gggggacagg  | gagttagtgt | ttcatgggga | cagagtttca | 720  |
| gtttgggaag  | aggagaaagt | tctggagagg  | atgggtgtga | tggcggcaca | acattgtagt | 780  |
| gagaaaagag  | agagggagag | gaagggtctga | aagccccaa  | cccatcttc  | cggctccagc | 840  |
| gtcatatgag  | atgcgtgttc | ccgcggcctc  | accgttgagt | ttgaaggcgt | gatgtcagaa | 900  |
| tgcaggccca  | gcagggacac | cccgggagat  | ggtgggggtg | gctggcaggg | cgggtttcac | 960  |
| ctggactgca  | ccagcccagg | tgtgacgggc  | tctgggccag | accaggcac  | ccaaggtgag | 1020 |
| aaggcagcat  | ctctggtctc | gggataccca  | ggcctccccg | aggcggcaga | actccggccg | 1080 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| tacctcgcag | cagctggtcc | gtggcacc   | tggtatgtcc | cattcatgca  | gtgcctttcc | 1140 |
| agcctcttcc | agaaagaatt | taattcacc  | gttcgcata  | gaccacggga  | gaatcgcttg | 1200 |
| aacctgggag | acggagggtg | cagtgcagca | tgatgcacc  | actgcactcc  | agcctaggcg | 1260 |
| acagggcaag | actctgtctc | aaaacaaaaa | aaaaaaaaaa | aaaaggagaa  | atttccagaa | 1320 |
| caggcagatc | cacagagaat | atgcatggat | gtgtggttgg | aggagacggg  | ggtgactgct | 1380 |
| aatgcggacg | gggtttccat | ttaaggcgat | gaaacagttc | tggaattcag  | ccagcacagt | 1440 |
| ggctcacacc | tgtaatctca | gcaacctggg | agtccgaggt | ggggggattg  | cttgagacca | 1500 |
| ggagttcaag | accagcctgg | gcaatatagt | gagaccccat | ctctagaaga  | aaagaatttt | 1560 |
| aagttagccg | tgcatgctgg | ttcatgtctg | cagccccagc | tactctggag  | gctgagatgg | 1620 |
| gaggatcgct | tgagcccagg | aattcaaggc | ttcaccgaga | taaggagggtg | ccactgtagt | 1680 |
| ccggcctggg | caacagatcg | ttaactctt  |            |             |            | 1709 |

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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (78).. (1337)

|             |            |            |            |            |            |      |
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| gggaggatgc  | ggacttcccc | attctgtgcc | agacatgtct | tggagaaaac | ccatatatcc | 180  |
| gaatgacc    | agaaaagt   | gggaagg    | gcaaaatctg | tgccaggcca | ttcacagtgt | 240  |
| ttcgctgggtg | ccctggagtc | cgcatgcgtt | tcaagaagac | tgaagtgtgc | caaacctgca | 300  |
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| aggttcgtga  | cgcaggattg | tcttttaaag | atgacatgcc | aaagtcagat | gtcaacaaag | 420  |
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| gcatgctggg  | gaaagccaca | tctaccagt  | acatgctgct | caaactggcc | cggaccacac | 540  |
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| gaggagagga  | atgtccatac | agacatgaga | agcctacaga | tccagatgac | ccccttgctg | 660  |
| atcagaatat  | taaagaccgt | tattacggaa | tcaatgatcc | tgtagctgac | aagcttctaa | 720  |
| agcgggcttc  | aacaatgcct | cggctggacc | caccagagga | taaaactatc | accacactat | 780  |
| atgtttggtg  | tctaggtgat | accattactg | agacagattt | aagaaatcat | ttctaccagt | 840  |
| tccgagagat  | ccggacgac  | actgttgtgc | agagacagca | gtgtgctttc | atccagtttg | 900  |
| ccacacggca  | ggctgcagaa | gtggctgctg | agaagtcctt | taataagttg | attgtaaatg | 960  |
| gccgcagact  | gaatgtgaaa | tggggaagat | cccaggcagc | cagaggaaaa | gaaaaagaga | 1020 |
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| ttcctcctcc  | tcctgcagca | gaagaagaag | cctctgccaa | ctacttcaac | ttgcccccaa | 1140 |
| gtggctcctcc | agctgtggtg | aacattgtct | tgccaccgcc | ccctggcatt | gtccaccccc | 1200 |
| cacccccagg  | ttttgggcca | cacatgttcc | acccaatggg | accaccccct | cctttcatgc | 1260 |
| gggctccagg  | accaatccac | tatccttctc | aggacctca  | gaggatggga | gctcatgctg | 1320 |
| gaaaacacag  | cagcccctag | caccttgtca | ccactctggg | gctctgtgga | agaaagggca | 1380 |
| cttaaaaactc | ccagtaaatc | ttggaataaa | tatatTTTTT | cttcccttgt | agtttccatg | 1440 |
| gtagctgaat  | gtgctcagat | gtgagcagtc | agagactgac | agccatgctt | tcctatactt | 1500 |

000220 69462960

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<210> 11008  
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 <212> PRT  
 <213> Homo sapiens

<400> 11008

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Thr | Ser | Leu | Gly | Ser | Asn | Thr | Tyr | Asn | Arg | Gln | Asn | Trp | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Ala | Asp | Phe | Pro | Ile | Leu | Cys | Gln | Thr | Cys | Leu | Gly | Glu | Asn | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Tyr | Ile | Arg | Met | Thr | Lys | Glu | Lys | Tyr | Gly | Lys | Glu | Cys | Lys | Ile | Cys |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Arg | Pro | Phe | Thr | Val | Phe | Arg | Trp | Cys | Pro | Gly | Val | Arg | Met | Arg |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Lys | Lys | Thr | Glu | Val | Cys | Gln | Thr | Cys | Ser | Lys | Leu | Lys | Asn | Val |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Cys | Gln | Thr | Cys | Leu | Leu | Asp | Leu | Glu | Tyr | Gly | Leu | Pro | Ile | Gln | Val |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Arg | Asp | Ala | Gly | Leu | Ser | Phe | Lys | Asp | Asp | Met | Pro | Lys | Ser | Asp | Val |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Lys | Glu | Tyr | Tyr | Thr | Gln | Asn | Met | Glu | Arg | Glu | Ile | Ser | Asn | Ser |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Asp | Gly | Thr | Arg | Pro | Val | Gly | Met | Leu | Gly | Lys | Ala | Thr | Ser | Thr | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Met | Leu | Leu | Lys | Leu | Ala | Arg | Thr | Thr | Pro | Tyr | Tyr | Lys | Arg | Asn |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |
| Arg | Pro | His | Ile | Cys | Ser | Phe | Trp | Val | Lys | Gly | Glu | Cys | Lys | Arg | Gly |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Glu | Glu | Cys | Pro | Tyr | Arg | His | Glu | Lys | Pro | Thr | Asp | Pro | Asp | Asp | Pro |
|     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Leu | Ala | Asp | Gln | Asn | Ile | Lys | Asp | Arg | Tyr | Tyr | Gly | Ile | Asn | Asp | Pro |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Ala | Asp | Lys | Leu | Leu | Lys | Arg | Ala | Ser | Thr | Met | Pro | Arg | Leu | Asp |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Pro | Pro | Glu | Asp | Lys | Thr | Ile | Thr | Thr | Leu | Tyr | Val | Gly | Gly | Leu | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asp | Thr | Ile | Thr | Glu | Thr | Asp | Leu | Arg | Asn | His | Phe | Tyr | Gln | Phe | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Glu | Ile | Arg | Thr | Ile | Thr | Val | Val | Gln | Arg | Gln | Gln | Cys | Ala | Phe | Ile |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Gln | Phe | Ala | Thr | Arg | Gln | Ala | Ala | Glu | Val | Ala | Ala | Glu | Lys | Ser | Phe |
|     |     | 275 |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Asn | Lys | Leu | Ile | Val | Asn | Gly | Arg | Arg | Leu | Asn | Val | Lys | Trp | Gly | Arg |
| 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Ser | Gln | Ala | Ala | Arg | Gly | Lys | Glu | Lys | Glu | Lys | Asp | Gly | Thr | Thr | Asp |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Ser | Gly | Ile | Lys | Leu | Glu | Pro | Val | Pro | Gly | Leu | Pro | Gly | Ala | Leu | Pro |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Pro | Pro | Pro | Ala | Ala | Glu | Glu | Glu | Ala | Ser | Ala | Asn | Tyr | Phe | Asn | Leu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |
| Pro | Pro | Ser | Gly | Pro | Pro | Ala | Val | Val | Asn | Ile | Ala | Leu | Pro | Pro | Pro |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Pro | Gly | Ile | Ala | Pro | Pro | Pro | Pro | Pro | Gly | Phe | Gly | Pro | His | Met | Phe |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| His | Pro | Met | Gly | Pro | Pro | Pro | Pro | Phe | Met | Arg | Ala | Pro | Gly | Pro | Ile |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| His | Tyr | Pro | Ser | Gln | Asp | Pro | Gln | Arg | Met | Gly | Ala | His | Ala | Gly | Lys |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| His | Ser | Ser | Pro |     |     |     |     |     |     |     |     |     |     |     |     |
|     |     |     | 420 |     |     |     |     |     |     |     |     |     |     |     |     |

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 <212> DNA  
 <213> Homo sapiens

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 <222> (35).. (1102)

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 ctctggattg ccccgaaaca ccgtggtact gttcgtgcgc cagcaggagg cctgggtggt 180  
 ggagcgaatg ggccgattcc accggatcct ggagcctggt ttgaacatcc tcatccctgt 240  
 gttagaccgg atccgatatg tgcagagtct caaggaaatt gtcacaaacg tgccctgagca 300  
 gtccgctgtg actctcgaca atgtaactct gcaaatcgat ggagtccctt acctgcgcac 360  
 catggaccct tacaaggcaa gctacgggtg ggaggaccct gagtatgcgc tcaccagct 420  
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tatgcagatg caggtggagg cagagcggcg gaaacgggco acagttctag agtctgaggg 660
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cgaagcagaa aaggctgaac agataaatca ggcagcagga gaggccagtg cagttctggc 780
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<210> 11010  
 <211> 356  
 <212> PRT  
 <213> Homo sapiens

<400> 11010

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Ala | Arg | Ala | Ala | Arg | Gly | Thr | Gly | Ala | Leu | Leu | Leu | Arg | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Leu | Leu | Ala | Ser | Gly | Arg | Ala | Pro | Arg | Arg | Ala | Ser | Ser | Gly | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Arg | Asn | Thr | Val | Val | Leu | Phe | Val | Pro | Gln | Gln | Glu | Ala | Trp | Val |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Glu | Arg | Met | Gly | Arg | Phe | His | Arg | Ile | Leu | Glu | Pro | Gly | Leu | Asn |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ile | Leu | Ile | Pro | Val | Leu | Asp | Arg | Ile | Arg | Tyr | Val | Gln | Ser | Leu | Lys |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Glu | Ile | Val | Ile | Asn | Val | Pro | Glu | Gln | Ser | Ala | Val | Thr | Leu | Asp | Asn |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Val | Thr | Leu | Gln | Ile | Asp | Gly | Val | Leu | Tyr | Leu | Arg | Ile | Met | Asp | Pro |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Tyr | Lys | Ala | Ser | Tyr | Gly | Val | Glu | Asp | Pro | Glu | Tyr | Ala | Val | Thr | Gln |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Leu | Ala | Gln | Thr | Thr | Met | Arg | Ser | Glu | Leu | Gly | Lys | Leu | Ser | Leu | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Val | Phe | Arg | Glu | Arg | Glu | Ser | Leu | Asn | Ala | Ser | Ile | Val | Asp | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Ile | Asn | Gln | Ala | Ala | Asp | Cys | Trp | Gly | Ile | Arg | Cys | Leu | Arg | Tyr | Glu |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ile | Lys | Asp | Ile | His | Val | Pro | Pro | Arg | Val | Lys | Glu | Ser | Met | Gln | Met |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Gln | Val | Glu | Ala | Glu | Arg | Arg | Lys | Arg | Ala | Thr | Val | Leu | Glu | Ser | Glu |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Gly | Thr | Arg | Glu | Ser | Ala | Ile | Asn | Val | Ala | Glu | Gly | Lys | Lys | Gln | Ala |

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210 215 220  
Gln Ile Leu Ala Ser Glu Ala Glu Lys Ala Glu Gln Ile Asn Gln Ala  
225 230 235 240  
Ala Gly Glu Ala Ser Ala Val Leu Ala Lys Ala Lys Ala Lys Ala Glu  
245 250 255  
Ala Ile Arg Ile Leu Ala Ala Ala Leu Thr Gln His Asn Gly Asp Ala  
260 265 270  
Ala Ala Ser Leu Thr Val Ala Glu Gln Tyr Val Ser Ala Phe Ser Lys  
275 280 285  
Leu Ala Lys Asp Ser Asn Thr Ile Leu Leu Pro Ser Asn Pro Gly Asp  
290 295 300  
Val Thr Ser Met Val Ala Gln Ala Met Gly Val Tyr Gly Ala Leu Thr  
305 310 315 320  
Lys Ala Pro Val Pro Gly Thr Pro Asp Ser Leu Ser Ser Gly Ser Ser  
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Val Lys Met Ser  
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<212> DNA  
<213> Homo sapiens

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<220>

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<221> CDS

<222> (63).. (506)

<400> 11012

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<211> 148

<212> PRT

<213> Homo sapiens

<400> 11013

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Lys Leu Arg Tyr Ala Asn Asn Ser Asn Tyr Lys Asn Asp Val Met Ile
             35             40             45
Arg Lys Glu Ala Tyr Val His Lys Ser Val Met Glu Glu Leu Lys Arg
             50             55             60
Ile Ile Asp Asp Ser Glu Ile Thr Lys Glu Asp Asp Ala Leu Trp Pro
             65             70             75             80
Pro Pro Asp Arg Val Gly Arg Gln Glu Leu Glu Ile Val Ile Gly Asp
             85             90             95
Glu His Ile Ser Phe Thr Thr Ser Lys Ile Gly Ser Leu Ile Asp Val
             100            105            110
Asn Gln Ser Lys Asp Pro Glu Gly Leu Arg Val Phe Tyr Tyr Leu Val
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Ile Lys Pro Ile
145
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<210> 11014

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cacttagttg ttggttttaa taattaagga aacaggacct acctatacct gtgccaacag 1260
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<400> 11015

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Leu Lys Lys Lys Ser Asp Ala Ile Thr Leu Arg Phe Arg Gln Ile Leu
      35             40             45
Lys Lys Ile Ile Glu Thr Lys Met Leu Met Gly Glu Val Met Arg Glu
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Ala Ala Phe Ser Leu Ala Glu Ala Lys Phe Thr Ala Gly Asp Phe Ser

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-4475/13211-

65 70 75 80  
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100 105 110  
His Glu Gly Gln Ser Ser Gly Thr Thr Gly Gly Thr Ser Phe Ser Ala  
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aaaagaaggc tcaaacgtca ctggaatctc aattcacaga tcgataccca gataatctga 300  
aacatctcta tttagctgaa gaggaagac ataggaagca agcaagaaaa gtgcaccatc 360  
ctttgtcaga acaagttcac cagccgttgc ttgaagaaca gtgtagcatt gacgagcctt 420  
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Arg Gln Lys Thr Trp Arg Pro Asn His Pro Gln Ala Phe Val Gly Ser  
35 40 45  
Val Arg Glu Gly Gln Gly Phe Ala Phe Arg Arg Lys Leu Lys Ile Gln  
50 55 60  
Gln Ser Tyr Lys Lys Leu Arg Lys Glu Lys Lys Ala Gln Thr Ser  
65 70 75 80

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Leu Glu Ser Gln Phe Thr Asp Arg Tyr Pro Asp Asn Leu Lys His Leu  
85 90 95  
Tyr Leu Ala Glu Glu Glu Arg His Arg Lys Gln Ala Arg Lys Val Asp  
100 105 110  
His Pro Leu Ser Glu Gln Val His Gln Pro Leu Leu Glu Glu Gln Cys  
115 120 125  
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145 150 155

<210> 11018  
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<213> Homo sapiens

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ccattaaggg accctctctt tttggatggc agagatgggt ttttaatgaa atcccaccat 180  
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tttcaacatt gcaaaatcag ttttttacct ctttcctacc aatttcacat ttgcagaaa 420  
cttgttcaca tttccaacaa tatcagaatt agaaaacagt tcagataaca agaaagatta 480  
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catgttgitt ctagcaatat atctccatga gatatgcaat ctgtttcata ttgaaaagta 840  
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aagaggcatg ctaaaaataa ttgaggtttt catgattcag cacctgcttt tgtttctgtg 480  
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<210> 11020  
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<212> PRT  
<213> Homo sapiens

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Ile Val Gly Phe Ile Tyr Gly Tyr Val Ala Glu Gln Phe Gly Trp Thr  
35 40 45  
Val Tyr Ile Val Met Ala Gly Phe Ala Phe Ser Cys Leu Leu Thr Leu  
50 55 60  
Pro Pro Trp Pro Ile Tyr Arg Arg His Pro Leu Lys Trp Leu Pro Val  
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Arg His Ala Lys Asn Asn  
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<212> DNA  
<213> Homo sapiens

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978

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 <213> Homo sapiens

<400> 11022

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Pro | Trp | Ala | Leu | Leu | Ser | Pro | Gly | Val | Leu | Val | Arg | Thr | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| His | Thr | Val | Leu | Thr | Trp | Gly | Ile | Thr | Leu | Val | Leu | Phe | Leu | His | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Glu | Leu | Arg | Gln | Trp | Glu | Glu | Gln | Gly | Glu | Leu | Leu | Leu | Pro | Leu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Phe | Leu | Leu | Leu | Val | Leu | Gly | Ser | Leu | Leu | Leu | Tyr | Leu | Ala | Val |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Ser | Leu | Met | Asp | Pro | Gly | Tyr | Val | Asn | Val | Gln | Pro | Gln | Pro | Gln | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Leu | Lys | Glu | Glu | Gln | Thr | Ala | Met | Val | Pro | Pro | Ala | Ile | Pro | Leu |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Arg | Cys | Arg | Tyr | Cys | Leu | Val | Leu | Gln | Pro | Leu | Arg | Ala | Arg | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Cys | Arg | Glu | Cys | Arg | Arg | Cys | Val | Arg | Arg | Tyr | Asp | His | His | Cys | Pro |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Trp | Met | Glu | Asn | Cys | Val | Gly | Glu | Arg | Asn | His | Pro | Leu | Phe | Val | Val |
|     | 130 |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |     |
| Tyr | Leu | Ala | Leu | Gln | Leu | Val | Val | Leu | Leu | Trp | Gly | Leu | Tyr | Leu | Ala |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |
| Trp | Ser | Gly | Leu | Arg | Phe | Phe | Gln | Pro | Trp | Gly | Leu | Trp | Leu | Arg | Ser |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ser | Gly | Leu | Leu | Phe | Ala | Thr | Phe | Leu | Leu | Ser | His | Phe | Phe | Cys |     |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Trp | Pro | Ser | Gly | Ser | Trp | Glu | Thr | Leu | Trp | Ala | Glu | Glu | Glu | Glu |

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195 200 205  
 Glu Gly Ser Ser Pro Ala Val  
 210 215

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 <212> DNA  
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 <212> PRT  
 <213> Homo sapiens

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 Gly Thr Tyr Cys Phe Arg Leu His Asn Asp Arg Val Tyr Tyr Val Ser

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35 40 45  
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Ser Leu Gly Thr Cys Phe Gly Lys Phe Thr Glu Thr His Lys Phe Arg  
65 70 75 80  
Leu His Val Thr Ala Leu Asp Tyr Leu Ala Pro Tyr Ala Lys Gly Phe  
85 90 95  
Gly Val Ala Ala Lys Ser Thr Gln Asp Cys Arg Lys Val Asp Pro Met  
100 105 110  
Ala Ile Val Val Phe His Gln Ala Asp Ile Gly Glu Tyr Val Arg His  
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<210> 11026  
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<212> PRT  
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35 40 45  
Arg Thr Asp Glu Ala Glu Pro Val Gly Ala Leu Leu Glu Arg Cys  
50 55 60  
Arg Val Val Arg Glu Glu Pro Gly Thr Phe Ser Ile Ser Phe Ile Glu  
65 70 75 80  
Asp Pro Glu Arg Lys Tyr His Phe Glu Cys Ser Ser Glu Glu Gln Cys  
85 90 95  
Gln Glu Trp Met Glu Ala Leu Arg Arg Ala Ser Tyr Glu Phe Met Arg  
100 105 110  
Arg Ser Leu Ile Phe Tyr Arg Asn Glu Ile Arg Lys Val Thr Gly Lys  
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<222> (266)..(1456)

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Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe
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      130      135      140
Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln
145      150      155      160
Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser
      165      170      175
Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu
      180      185      190
Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro
      195      200      205
Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly
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Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val
225      230      235      240
Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala
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Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr
      260      265      270
Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe
      275      280      285
Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro
      290      295      300
Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr
305      310      315      320
Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly
      325      330      335
Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu
      340      345      350
Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val
      355      360      365
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Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile
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<211> 1739

<212> DNA

<213> Homo sapiens

<400> 11029

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cagaagctga aacacatggt gctagataaa atgcatgccc gggcccgggg cccacgagcc 780
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aagaatccat ttgatttggc cagcctggct tttgtcgtgg tggctggctc ggataaattt 1560
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<210> 11031  
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 <212> PRT  
 <213> Homo sapiens

<400> 11031

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Pro | Met | Leu | Asp | Ala | Ala | Thr | Arg | Lys | Pro | Ile | Trp | Arg | His |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Glu | Ile | Leu | Asp | Ala | Asp | Gly | Ile | Cys | Ser | Pro | Gly | Glu | Lys | Val | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Lys | Gln | Val | Leu | Val | Asn | Lys | Ser | Met | Pro | Thr | Val | Thr | Gln | Ile |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Pro | Leu | Glu | Gly | Ser | Asn | Val | Pro | Gln | Gln | Pro | Gln | Tyr | Lys | Asp | Val |
|     |     |     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |
| Pro | Ile | Thr | Tyr | Lys | Gly | Ala | Thr | Asp | Ser | Tyr | Ile | Glu | Lys | Val | Met |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Ser | Ser | Asn | Ala | Glu | Asp | Ala | Phe | Leu | Ile | Lys | Met | Leu | Leu | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gln | Thr | Arg | Arg | Pro | Glu | Ile | Gly | Asp | Lys | Phe | Ser | Ser | Arg | His | Gly |
|     |     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Lys | Gly | Val | Cys | Gly | Leu | Ile | Val | Pro | Gln | Glu | Asp | Met | Pro | Phe |
|     |     |     | 115 |     |     |     |     | 120 |     |     |     | 125 |     |     |     |
| Cys | Asp | Ser | Gly | Ile | Cys | Pro | Asp | Ile | Ile | Met | Asn | Pro | His | Gly | Phe |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Pro | Ser | Arg | Met | Thr | Val | Gly | Lys | Leu | Ile | Glu | Leu | Leu | Ala | Gly | Lys |
|     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ala | Gly | Val | Leu | Asp | Gly | Arg | Phe | His | Tyr | Gly | Thr | Ala | Phe | Gly | Gly |

00629469.072800

165 170 175  
Ser Lys Val Lys Asp Val Cys Glu Asp Leu Val Cys His Gly Tyr Asn  
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Tyr Leu Gly Lys Asp Tyr Val Thr Ser Gly Ile Thr Gly Glu Pro Leu  
195 200 205  
Glu Ala Tyr Ile Tyr Phe Gly Pro Val Tyr Tyr Gln Lys Leu Lys His  
210 215 220  
Met Val Leu Asp Lys Met His Ala Arg Ala Arg Gly Pro Arg Ala Val  
225 230 235 240  
Leu Thr Arg Gln Pro Thr Glu Gly Arg Ser Arg Asp Gly Gly Leu Arg  
245 250 255  
Leu Gly Glu Met Glu Arg Asp Cys Leu Ile Gly Tyr Gly Ala Ser Met  
260 265 270  
Leu Leu Leu Glu Arg Leu Met Ile Ser Ser Asp Ala Phe Glu Val Asp  
275 280 285  
Val Cys Gly Gln Cys Gly Leu Leu Gly Tyr Ser Gly Trp Cys His Tyr  
290 295 300  
Cys Lys Ser Ser Cys His Val Ser Ser Leu Arg Ile Pro Tyr Ala Cys  
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Lys Leu Ser Lys Tyr Asn Glu  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (247).. (1071)

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cctatctcaa cgtccgtcca caaaaagcag agctttgtgc ttccaccott ttctactcaa 240  
gaagaaatgt caggtttgtc cttccacatc gcttcotttg atgagagtgg ggttctcaat 300  
gtatgggtgg ttgttgaatt accaaaggca gacatcgagc gtccaataag tgatttaggt 360  
ctgatgcctg gagggagggt caagctggta catagtgcct tgatccagtt gggtagacgt 420  
ctttctcata aaggtaatga attttggggc actacacaaa cactgaatgt taaatttctg 480  
ccttcagatc ctaatcactt tattattggc acagacatgg gtctcataag ccatggcaca 540  
agacaagatt tgagagtggc tcccaaacta ttcaaacctc agcaacatgg tataagacca 600  
gtgaaagtta atgtcattga tttttcacca ttgggagaac caatattttt ggccggctgt 660  
tcggacggaa gcatcaggct gcaccagctg agctccgctg ttccgctcct gcagtgggac 720  
agcagcacgg acagccatgc ggtcaccggc ctgcagtggt cccaaccag gcctgccgtg 780

000220" 69462960

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gagcctgaga aggctggtgg cagcttcctg gccctggtgc tggccagggc gtctggctcc 960
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tggctgagag gaccgcgttt ctgtaatgac ccagatttaa aagacataag gtggataatt 1140
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<210> 11033  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 11033

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Gly | Leu | Ser | Phe | His | Ile | Ala | Ser | Leu | Asp | Glu | Ser | Gly | Val | 1   | 5   | 10  | 15  |
| Leu | Asn | Val | Trp | Val | Val | Val | Glu | Leu | Pro | Lys | Ala | Asp | Ile | Ala | Gly | 20  | 25  | 30  |     |
| Ser | Ile | Ser | Asp | Leu | Gly | Leu | Met | Pro | Gly | Gly | Arg | Val | Lys | Leu | Val | 35  | 40  | 45  |     |
| His | Ser | Ala | Leu | Ile | Gln | Leu | Gly | Asp | Ser | Leu | Ser | His | Lys | Gly | Asn | 50  | 55  | 60  |     |
| Glu | Phe | Trp | Gly | Thr | Thr | Gln | Thr | Leu | Asn | Val | Lys | Phe | Leu | Pro | Ser | 65  | 70  | 75  | 80  |
| Asp | Pro | Asn | His | Phe | Ile | Ile | Gly | Thr | Asp | Met | Gly | Leu | Ile | Ser | His | 85  | 90  | 95  |     |
| Gly | Thr | Arg | Gln | Asp | Leu | Arg | Val | Ala | Pro | Lys | Leu | Phe | Lys | Pro | Gln | 100 | 105 | 110 |     |
| Gln | His | Gly | Ile | Arg | Pro | Val | Lys | Val | Asn | Val | Ile | Asp | Phe | Ser | Pro | 115 | 120 | 125 |     |
| Phe | Gly | Glu | Pro | Ile | Phe | Leu | Ala | Gly | Cys | Ser | Asp | Gly | Ser | Ile | Arg | 130 | 135 | 140 |     |
| Leu | His | Gln | Leu | Ser | Ser | Ala | Phe | Pro | Leu | Leu | Gln | Trp | Asp | Ser | Ser | 145 | 150 | 155 | 160 |
| Thr | Asp | Ser | His | Ala | Val | Thr | Gly | Leu | Gln | Trp | Ser | Pro | Thr | Arg | Pro | 165 | 170 | 175 |     |
| Ala | Val | Phe | Leu | Val | Gln | Asp | Asp | Thr | Ser | Asn | Ile | Tyr | Ile | Trp | Asp | 180 | 185 | 190 |     |
| Leu | Leu | Gln | Ser | Asp | Leu | Gly | Pro | Val | Ala | Lys | Gln | Gln | Val | Ser | Pro | 195 | 200 | 205 |     |
| Asn | Arg | Leu | Val | Ala | Met | Ala | Ala | Val | Gly | Glu | Pro | Glu | Lys | Ala | Gly | 210 | 215 | 220 |     |

Gly Ser Phe Leu Ala Leu Val Leu Ala Arg Ala Ser Gly Ser Ile Asp  
 225 230 235 240  
 Ile Gln His Leu Lys Arg Arg Trp Ala Ala Pro Glu Val Asp Glu Cys  
 245 250 255  
 Asn Arg Leu Arg Leu Leu Leu Gln Glu Ala Leu Trp Pro Glu Gly Lys  
 260 265 270  
 Leu His Lys  
 275

<210> 11034  
 <211> 1298  
 <212> DNA  
 <213> Homo sapiens

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 tgtotagact tgtactttca actgtccatt tctccctgtc tgtcccatgg gcactcatga 180  
 aaaaacagaa tgctcccaac tttattcatc ttccaagcct gtagctcttg gtatactcac 240  
 tgttgcaagt cagaagcttg atttcatcat tgatgttttt ctacagtttc acatctcact 300  
 catcaccaag tcatgttggt gttaatttct gattaaccct tgaatttacc gtcttctcat 360  
 cctctgtaca aaagcctcaa gtgagggtca aattcaacat tatcctgac tagacagccc 420  
 ccattctcaa tccacccttt tccaagttga ttgccaagg acttctaaca ataaactctc 480  
 ttttgcacca cagacttctt tgaaaatata catgctgttg accctctctg tagaaaaccg 540  
 cacacataaa acttaccaac agatttcatt ggttcttggg ttctcccgaa gcctatccat 600  
 ggtttataga ttaagaattg atgaggtagc tgggcacagt ggctcacacc tacgatcaca 660  
 gcacttcggg aggctgaagc aagcagatca cttaggttca ggagtttgag accagcctgg 720  
 ccaacatggg gaaaccctgt ctctactaaa aatacaaaaa gtagccagcc gtgatgacag 780  
 gcacctgtaa tcccagctac tcgggaggct gaggcattgag aattgcctga acccgggagg 840  
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 atcattaaga cctatttgtt agctagtaga gctttatgtt cgtgttccat gaaaccttct 1080  
 gtaaccacag tgactacgag tagttctttc tctattgaat tattagggtcc agaatagaag 1140  
 atgtcattgt acactttatt tccctcacac tgtgttatgc totgatgtgc tatgcttagc 1200  
 tatctgtcag agattagtaa attataaaac tcatgtgtac tacttaagtt tatactttat 1260  
 gctagtttat aagaacaatt aaaaggactt agaagatt 1298

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 <211> 1149  
 <212> DNA  
 <213> Homo sapiens

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 acccagctgg tcccagaaag gtggttccca ttacctgcc cgaaggtaat tcacccttac 120

000220"69463960







Tyr Gln Met Asn Glu Cys Gln Glu Lys Asp Thr Gly Phe Val Cys Ser  
50 55 60  
Arg Gln Ser Ser Leu Ser Ser Gly Leu Ser Gly Gly Ala Ser Lys Gly  
65 70 75 80  
Arg Lys Met Glu Leu Ile Gln Pro Lys Glu Pro Thr Ser Gln Tyr Ile  
85 90 95  
Ser Leu Cys His Glu Leu His Thr Leu Phe Gln Val Met Trp Ser Gly  
100 105 110  
Lys Trp Ala Leu Val Ser Pro Phe Ala Met Leu His Ser Val Trp Arg  
115 120 125  
Leu Ile Pro Ala Phe Arg Gly Tyr Ala Gln Gln Asp Ala Gln Glu Phe  
130 135 140  
Leu Cys Glu Leu Leu Asp Lys Ile Gln Arg Glu Leu Glu Thr Thr Gly  
145 150 155 160  
Thr Ser Leu Pro Ala Leu Ile Pro Thr Ser Gln Arg Lys Leu Ile Lys  
165 170 175  
Gln Val Leu Asn Val Val Asn Asn Ile Phe His Gly Gln Leu Leu Ser  
180 185 190  
Gln Val Thr Cys Leu Ala Cys Asp Asn Lys Ser Asn Thr Ile Glu Pro  
195 200 205  
Phe Trp Asp Leu Ser Leu Glu Phe Pro Glu Arg Tyr Gln Cys Ser Gly  
210 215 220  
Lys Asp Ile Ala Ser Gln Pro Cys Leu Val Thr Glu Met Leu Ala Lys  
225 230 235 240  
Phe Thr Glu Thr Glu Ala Leu Glu Gly Lys Ile Tyr Val Cys Asp Gln  
245 250 255  
Cys Asn Ser Lys Arg Arg Arg Phe Ser Ser Lys Pro Val Val Leu Thr  
260 265 270  
Glu Ala Gln Lys Gln Leu Met Ile Cys His Leu Pro Gln Val Leu Arg  
275 280 285  
Leu His Leu Lys Arg Phe Arg Trp Ser Gly Arg Asn Asn Arg Glu Lys  
290 295 300  
Ile Gly Val His Val Gly Phe Glu Glu Ile Leu Asn Met Glu Pro Tyr  
305 310 315 320  
Cys Cys Arg Glu Thr Leu Lys Ser Leu Arg Pro Glu Cys Phe Ile Tyr  
325 330 335  
Asp Leu Ser Ala Val Val Met His His Gly Lys Gly Phe Gly Ser Gly  
340 345 350  
His Tyr Thr Ala Tyr Cys Tyr Asn Ser Glu Gly Gly Phe Trp Val His  
355 360 365  
Cys Asn Asp Ser Lys Leu Ser Met Cys Thr Met Asp Glu Val Cys Lys  
370 375 380  
Ala Gln Ala Tyr Ile Leu Phe Tyr Thr Gln Arg Val Thr Glu Asn Gly  
385 390 395 400  
His Ser Lys Leu Leu Pro Pro Glu Leu Leu Gly Ser Gln His Pro  
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420 425

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<212> DNA  
<213> Homo sapiens

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<221> CDS  
<222> (182).. (562)

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catactgtct acacatcaga ccatagtigc ttaggaaacc tttaaaaatt ccagttaagc 180  
aatgttgaaa tcagtttgca tctcttcaaa agaaacctct caggttagct ttgaactgcc 240  
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catacacaga tgccagtcag ctccctggggg tgcgccaggc gcccccgctc tagctcactg 360  
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agttagcttt actcacgtgg cccttgcttc atccagcaca gctctcaggt gggcactgca 480  
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tggttatgga tggctcacia aatagggccc ccaatgotat ttttttttt ttaagtttgt 600  
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acaataacat ttttaaaaga aaatggatcc cactgttccct ctttgccaca gagaaagcac 720  
ccagacgcca caggctctgt cgcatttcaa aacaaacctat gatggagtgg cggccagtcc 780  
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<400> 11039

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| Met | Leu | Lys | Ser | Val | Cys | Ile | Ser | Ser | Lys | Glu | Thr | Ser | Gln | Val | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Phe | Glu | Leu | Pro | Leu | Pro | Glu | Met | Thr | Arg | Thr | Val | Gly | Thr | Gln | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Pro | Arg | Ser | Pro | Gln | Met | Tyr | Ile | His | Arg | Cys | Gln | Ser | Ala | Pro |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Gly | Val | Ala | Pro | Gly | Ala | Pro | Ala | Leu | Ala | His | Cys | Cys | Leu | Ala | Val |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Cys | Gln | Glu | Ala | Leu | Pro | Ser | Leu | Gly | Pro | Gly | Ser | Gly | Cys | Val | Pro |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Val | Ser | Phe | Thr | His | Val | Ala | Leu | Ala | Ser | Ser | Ser | Thr | Ala | Leu | Arg |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Trp | Ala | Leu | Gln | Gly | His | Trp | Cys | Leu | Pro | Cys | Ser | Val | Pro | Ala | Leu |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Gly | Ser | Cys | Asn | Arg | Pro | Leu | Phe | Gly | Tyr | Gly | Trp | Leu | Thr | Lys |     |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |

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<211> 1881

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (141).. (1214)

<400> 11040

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| tacctttatg  | aagcttttagt | gattacaaag | cactttttttt | gtccatttttt  | acctgagctt  | 120  |
| tgtaaaactct | gatttgcagg  | atggctggct | gtgggtgaaat | tgatcattca   | ataaacatgc  | 180  |
| ttcctacaaa  | caggaaagcg  | aacgagtcct | gttctaatac  | tgcaccttct   | ttaaccgtcc  | 240  |
| ctgaatgtgc  | catttgtctg  | caaacatgtg | ttcatccagt  | cagtctgccc   | tgtaagcacg  | 300  |
| ttttctgcta  | tctatgtgta  | aaaggagctt | catggcttgg  | aaagcgggtg   | gctcttcgtc  | 360  |
| gacaagaaat  | tcccagggat  | ttccttgaca | agccaacctt  | gttgtcacca   | gaagaactca  | 420  |
| aggcagcaag  | tagaggaaat  | ggtgaatatg | catggtatta  | tgaaggaaga   | aatgggtggt  | 480  |
| ggcagtacga  | tgagcgcact  | agtagagagc | tggaagatgc  | tttttccaaa   | ggtaaaaaaga | 540  |
| acactgaaat  | gttaattgct  | ggctttctgt | atgtcgctga  | tottgaaaac   | atggttcaat  | 600  |
| ataggagaaa  | tgaacatgga  | cgtcgcagga | agattaagcg  | agatataata   | gatataccaa  | 660  |
| agaaggaggat | agctggactt  | aggctagact | gtgatgctaa  | taccgtaaac   | ctagcaagag  | 720  |
| agagctctgc  | tgacggagcg  | gacagtgtat | cagcacagag  | tggagcttct   | gttcagcccc  | 780  |
| tagtgtcttc  | tgtaaggccc  | ctaacatcag | tagatgggtca | gtcaacaagc   | cctgcaacac  | 840  |
| catcccctga  | tgcaagcact  | tctctggaag | actcttttgc  | tcatttacaa   | ctcagtggag  | 900  |
| acaacacagc  | tgaagaggat  | cataggggag | aaggagaaga  | agatcatgaa   | tcaccatctt  | 960  |
| caggcagggg  | accagcacca  | gacacctcca | ttgaagaaac  | tgaatcagat   | gccagtagtg  | 1020 |
| atagtgagga  | tgtatctgca  | gttgttgcac | agcactcctt  | gacccaacag   | agacttttgg  | 1080 |
| tttctaattgc | aaaccagaca  | gtacccgatc | gatcagatcg  | attgggaact   | gatcgatcag  | 1140 |



|                     |                             |                     |
|---------------------|-----------------------------|---------------------|
| 210                 | 215                         | 220                 |
| Asp Gly Gln Ser Thr | Ser Pro Ala Thr Pro Ser     | Pro Asp Ala Ser Thr |
| 225                 | 230                         | 235                 |
| Ser Leu Glu Asp Ser | Phe Ala His Leu Gln Leu Ser | Gly Asp Asn Thr     |
| 245                 | 250                         | 255                 |
| Ala Glu Arg Ser His | Arg Gly Glu Gly Glu Glu Asp | His Glu Ser Pro     |
| 260                 | 265                         | 270                 |
| Ser Ser Gly Arg Val | Pro Ala Pro Asp Thr Ser     | Ile Glu Glu Thr Glu |
| 275                 | 280                         | 285                 |
| Ser Asp Ala Ser Ser | Asp Ser Glu Asp Val Ser     | Ala Val Val Ala Gln |
| 290                 | 295                         | 300                 |
| His Ser Leu Thr Gln | Gln Arg Leu Leu Val Ser     | Asn Ala Asn Gln Thr |
| 305                 | 310                         | 315                 |
| Val Pro Asp Arg Ser | Asp Arg Leu Gly Thr Asp     | Arg Ser Val Ala Gly |
| 325                 | 330                         | 335                 |
| Gly Gly Thr Val Ser | Val Ser Val Arg Ser Arg     | Arg Pro Asp Gly Gln |
| 340                 | 345                         | 350                 |
| Cys Thr Val Thr Glu | Val                         |                     |
| 355                 |                             |                     |

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 <222> (23).. (1444)

<400> 11042

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| actaaaagt  | gtggagattg | agaaatgcaa | gagtgacatt  | aagaagatga  | gggaggagct | 300  |
| ggcggccaga | agcagcagga | ccaactgccc | ctgtaagtac  | agtttttttg  | ataaccacaa | 360  |
| gaagttgact | cctcgacgcg | atgttcccac | ttaccccaag  | tacctgctct  | ctccagagac | 420  |
| catcgaggcc | ctgcggaagc | cgacctttga | cgtctggctt  | tgggagccca  | atgagatgct | 480  |
| gagctgcctg | gagcacatgt | accacgacct | cgggctggtc  | agggacttca  | gcacacccc  | 540  |
| tgtaaccctc | aggaggtggc | tgttctgtgt | ccacgacaac  | tacagaaaca  | accccttcca | 600  |
| caacttccgg | cactgcttct | gcgtggccca | gatgatgtac  | agcatgggtct | ggctctgcag | 660  |
| totccaggag | aagttctcac | aaacggatat | cctgatccta  | atgacagcgg  | ccatctgcca | 720  |
| cgatctggac | catcccggct | acaacaacac | gtaccagatc  | aatgcccga   | cagagctggc | 780  |
| ggtccgctac | aatgacatct | caccgctgga | gaaccaccac  | tgcgccgtgg  | ccttccagat | 840  |
| cctcgccgag | cctgagtga  | acatcttctc | caacatccca  | cctgatgggt  | tcaagcagat | 900  |
| ccgacaggga | atgatcacat | taatcttggc | cactgacatg  | gcaagacatg  | cagaaattat | 960  |
| ggattctttc | aaagagaaaa | tggagaattt | tgactacagc  | aacgaggagc  | acatgaccct | 1020 |

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<400> 11043

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Ser | Ile | Asp | Pro | Thr | Met | Pro | Ala | Asn | Ser | Glu | Arg | Thr | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Tyr | Lys | Val | Arg | Pro | Val | Ala | Ile | Lys | Gln | Leu | Ser | Glu | Arg | Glu | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Ile | Gln | Ser | Val | Leu | Ala | Gln | Val | Ala | Glu | Gln | Phe | Ser | Arg | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |
| Phe | Lys | Ile | Asn | Glu | Leu | Lys | Ala | Glu | Val | Ala | Asn | His | Leu | Ala | Val |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Leu | Glu | Lys | Arg | Val | Glu | Leu | Glu | Gly | Leu | Lys | Val | Val | Glu | Ile | Glu |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Lys | Cys | Lys | Ser | Asp | Ile | Lys | Lys | Met | Arg | Glu | Glu | Leu | Ala | Ala | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Ser | Arg | Thr | Asn | Cys | Pro | Cys | Lys | Tyr | Ser | Phe | Leu | Asp | Asn | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Lys | Leu | Thr | Pro | Arg | Arg | Asp | Val | Pro | Thr | Tyr | Pro | Lys | Tyr | Leu |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Ser | Pro | Glu | Thr | Ile | Glu | Ala | Leu | Arg | Lys | Pro | Thr | Phe | Asp | Val |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Trp | Leu | Trp | Glu | Pro | Asn | Glu | Met | Leu | Ser | Cys | Leu | Glu | His | Met | Tyr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| His | Asp | Leu | Gly | Leu | Val | Arg | Asp | Phe | Ser | Ile | Asn | Pro | Val | Thr | Leu |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Arg | Arg | Trp | Leu | Phe | Cys | Val | His | Asp | Asn | Tyr | Arg | Asn | Asn | Pro | Phe |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| His | Asn | Phe | Arg | His | Cys | Phe | Cys | Val | Ala | Gln | Met | Met | Tyr | Ser | Met |
|     |     |     | 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |     |
| Val | Trp | Leu | Cys | Ser | Leu | Gln | Glu | Lys | Phe | Ser | Gln | Thr | Asp | Ile | Leu |
|     |     |     | 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |     |
| Ile | Leu | Met | Thr | Ala | Ala | Ile | Cys | His | Asp | Leu | Asp | His | Pro | Gly | Tyr |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |         |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240     |
| Asn | Asn | Thr | Tyr | Gln | Ile | Asn | Ala | Arg | Thr | Glu | Leu | Ala | Val | Arg Tyr |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255     |
| Asn | Asp | Ile | Ser | Pro | Leu | Glu | Asn | His | His | Cys | Ala | Val | Ala | Phe Gln |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |         |
| Ile | Leu | Ala | Glu | Pro | Glu | Cys | Asn | Ile | Phe | Ser | Asn | Ile | Pro | Pro Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |         |
| Gly | Phe | Lys | Gln | Ile | Arg | Gln | Gly | Met | Ile | Thr | Leu | Ile | Leu | Ala Thr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |         |
| Asp | Met | Ala | Arg | His | Ala | Glu | Ile | Met | Asp | Ser | Phe | Lys | Glu | Lys Met |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320     |
| Glu | Asn | Phe | Asp | Tyr | Ser | Asn | Glu | Glu | His | Met | Thr | Leu | Leu | Lys Met |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335     |
| Ile | Leu | Ile | Lys | Cys | Cys | Asp | Ile | Ser | Asn | Glu | Val | Arg | Pro | Met Glu |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |         |
| Val | Ala | Glu | Pro | Trp | Val | Asp | Cys | Leu | Leu | Glu | Glu | Tyr | Phe | Met Gln |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |         |
| Ser | Asp | Arg | Glu | Lys | Ser | Glu | Gly | Leu | Pro | Val | Ala | Pro | Phe | Met Asp |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |         |
| Arg | Asp | Lys | Val | Thr | Lys | Ala | Thr | Ala | Gln | Ile | Gly | Phe | Ile | Lys Phe |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400     |
| Val | Leu | Ile | Pro | Met | Phe | Glu | Thr | Val | Thr | Lys | Leu | Phe | Pro | Met Val |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415     |
| Glu | Glu | Ile | Met | Leu | Gln | Pro | Leu | Trp | Glu | Ser | Arg | Asp | Arg | Tyr Glu |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |         |
| Glu | Leu | Lys | Arg | Ile | Asp | Asp | Ala | Met | Lys | Glu | Leu | Gln | Lys | Lys Thr |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |         |
| Asp | Ser | Leu | Thr | Ser | Gly | Ala | Thr | Glu | Lys | Ser | Arg | Glu | Arg | Ser Arg |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |         |
| Asp | Val | Lys | Asn | Ser | Glu | Gly | Asp | Cys | Ala |     |     |     |     |         |
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 <212> DNA  
 <213> Homo sapiens

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 tagatttgta acgtttctga tggacaatta ccaggaaatt ctgaaagtcc ctttggcctt 180  
 gcagacctct atagaggagc gtgtggctca tctacgaaga gtccagataa aatacccagg 240  
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 <213> Homo sapiens

<400> 11045

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Pro | Leu | Cys | Asp | Gly | Phe | Gly | Thr | Arg | Thr | Leu | Met | Val | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Thr | Phe | Ser | Arg | Cys | Ile | Leu | Cys | Ser | Lys | Asp | Glu | Val | Asp | Leu | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Leu | Leu | Ala | Ala | Arg | Leu | Val | Thr | Phe | Leu | Met | Asp | Asn | Tyr | Gln |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Ile | Leu | Lys | Val | Pro | Leu | Ala | Leu | Gln | Thr | Ser | Ile | Glu | Glu | Arg |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Val | Ala | His | Leu | Arg | Arg | Val | Gln | Ile | Lys | Tyr | Pro | Gly | Ala | Asp | Met |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Asp | Ile | Thr | Leu | Ser | Ala | Pro | Ser | Phe | Cys | Arg | Gln | Ile | Ser | Pro | Glu |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     | 95  |     |     |
| Glu | Phe | Glu | Tyr | Gln | Arg | Ser | Tyr | Gly | Ser | Gln | Glu | Pro | Leu | Ala | Ala |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Leu | Leu | Glu | Glu | Val | Ile | Thr | Asp | Ala | Lys | Leu | Ser | Asn | Lys | Glu | Lys |
|     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Lys | Lys | Lys | Leu | Lys | Gln | Phe | Gln | Lys | Ser | Tyr | Pro | Glu | Val | Tyr | Gln |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Glu | Arg | Phe | Pro | Thr | Pro | Glu | Ser | Ala | Ala | Leu | Phe | Pro | Glu | Lys |     |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |     |
| Pro | Lys | Pro | Lys | Pro | Gln | Leu | Leu | Met | Trp | Ala | Leu | Lys | Lys | Pro | Phe |

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180 185

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<213> Homo sapiens

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<400> 11047

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| Met | Phe | Arg | His | Thr | Asp | Ser | Leu | Phe | Pro | Ile | Leu | Leu | Gln | Thr | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ser | Asp | Glu | Ser | Asp | Glu | Val | Ile | Leu | Lys | Asp | Leu | Glu | Val | Leu | Ala |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Glu | Ile | Ala | Ser | Ser | Pro | Ala | Gly | Gln | Thr | Asp | Asp | Pro | Gly | Pro | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Gly | Pro | Asp | Leu | Gln | Ala | Ser | His | Ser | Glu | Leu | Gln | Val | Pro | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Pro | Gly | Arg | Ala | Gly | Leu | Asn | Thr | Ser | Gly | Thr | Lys | Gly | Leu | Glu |     |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Cys | Ser | Pro | Ser | Thr | Pro | Thr | Met | Asn | Ser | Tyr | Phe | Tyr | Lys | Phe | Met |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ile | Asn | Leu | Leu | Lys | Arg | Phe | Ser | Ser | Glu | Trp | Lys | Leu | Leu | Glu | Val |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Gly | Pro | Phe | Ile | Ile | Arg | Gln | Leu | Cys | Leu | Leu | Leu | Asn | Ala | Glu |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Asn | Ile | Phe | His | Ser | Met | Ala | Asp | Ile | Leu | Leu | Arg | Glu | Glu | Asp | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Phe | Ala | Ser | Thr | Met | Val | His | Ala | Leu | Asn | Thr | Ile | Leu | Leu | Thr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ser | Thr | Glu | Leu | Phe | Gln | Leu | Arg | Asn | Gln | Leu | Lys | Asp | Leu | Lys | Thr |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Leu | Glu | Ser | Gln | Asn | Leu | Phe | Cys | Cys | Leu | Tyr | Arg | Ser | Trp | Cys | His |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asn | Pro | Val | Thr | Thr | Val | Ser | Leu | Cys | Phe | Leu | Thr | Gln | Asn | Tyr | Arg |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| His | Ala | Tyr | Asp | Leu | Ile | Gln | Lys | Phe | Gly | Asp | Leu | Glu | Val | Thr | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asp | Phe | Leu | Ala | Glu | Val | Asp | Lys | Leu | Val | Gln | Leu | Ile | Glu | Cys | Pro |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| Ile | Phe | Thr | Tyr | Leu | Arg | Leu | Gln | Leu | Leu | Asp | Val | Lys | Asn | Asn | Pro |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Tyr | Leu | Ile | Lys | Ala | Leu | Tyr | Gly | Leu | Leu | Met | Leu | Leu | Pro | Gln | Ser |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Ala | Phe | Gln | Leu | Leu | Ser | His | Arg | Leu | Gln | Cys | Val | Pro | Asn | Pro |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Glu | Leu | Leu | Gln | Thr | Glu | Asp | Ser | Leu | Lys | Ala | Ala | Pro | Lys | Ser | Gln |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Lys | Ala | Asp | Ser | Pro | Ser | Ile | Asp | Tyr | Ala | Glu | Leu | Leu | Gln | His | Phe |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Glu | Lys | Val | Gln | Asn | Lys | His | Leu | Glu | Val | Arg | His | Gln | Arg | Ser | Gly |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Arg | Gly | Asp | His | Leu | Asp | Arg | Arg | Val | Val | Leu |     |     |     |     |     |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     |     |     |     |

<210> 11048

003220 69462960

<211> 1416  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (1).. (897)

<400> 11048  
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agctaccacc tggccacca aaggtacacg caggccggca acaagctgaa ggccatgagg 180  
gcgctgctca aatccggaga caccggagaa atcacgttct tcgcgagcgt gtccaggcag 240  
aaggaaatct acatcatggc tgctaactac ctgcagtccc tggactggcg gaaggagccg 300  
gagatcatga agaacatcat cggcttctac accaaggggc gggccctgga cctcctggct 360  
ggcttttatg acgcttgtgc ccagggtggag attgatgaat accagaacta cgacaaagcc 420  
cacggggcgc tgaccgaggc ctacaagtgc ctggccaagg ccaaggccaa gagccccctg 480  
gaccaggaga ccaggctggc gcagctgcag agcaggatgg cactggtgaa gaggttcac 540  
caggcccgca ggacgtacac agaggacccc aaggagtcca tcaagcagtg tgagctgctc 600  
ctggaggaa cagacctgga cagcaccatc cgcctcggg acgtctatgg cttcctgggtg 660  
gagcactacg tgcggaagga ggaataccag acggcctaca gattcctgga ggagatgcgg 720  
cggcggtctc ccttggccaa catgtcctac tacgtgagcc cgcaggccgt ggacgccgtg 780  
caccgggggc tgggtctccc actgccacgc accgtccccg agcaggctcc ccacaacagc 840  
atggaggacg ccaggggagct ggacgaggag gtggtggaag aggcagatga cgaccctga 900  
ggggcctggg cccaggacc agcgtgctgc tgcagaaagg catcttctgg aatttttttg 960  
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tgctctgtcc cactgcctc tgggtgcccg gcagctccac tagatttttg gattcattcc 1140  
tttgaaggga gtccgggttc ccttccatc gtattctccc aactacacat tgtaaagcct 1200  
gagaaacttc tagaacctca ggaagctgca gctggagggc tggggcacct gccccctgc 1260  
tccccacaca tcatatcctc ccatactcc tgcaggggcc acggctcctg agcaacagct 1320  
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<210> 11049  
<211> 299  
<212> PRT  
<213> Homo sapiens

<400> 11049  
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Ser Ser Asp Leu Pro Glu Glu Ser Arg Glu Leu Leu Glu Gln Ile  
20 25 30  
Ala Asp Cys Met Arg Gln Gly Ser Tyr His Leu Ala Thr Lys Lys  
35 40 45  
Tyr Thr Gln Ala Gly Asn Lys Leu Lys Ala Met Arg Ala Leu Leu Lys

09629459.072300

|   |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|
| 50  |     | 55  |     | 60  |     |
| Ser Gly Asp Thr Glu Lys Ile Thr Phe Phe Ala Ser Val Ser Arg Gln |     |     |     |     |     |
| 65  |     | 70  |     | 75  | 80  |
| Lys Glu Ile Tyr Ile Met Ala Ala Asn Tyr Leu Gln Ser Leu Asp Trp |     |     |     |     |     |
|   | 85  |     | 90  |     | 95  |
| Arg Lys Glu Pro Glu Ile Met Lys Asn Ile Ile Gly Phe Tyr Thr Lys |     |     |     |     |     |
|   | 100 |     | 105 |     | 110 |
| Gly Arg Ala Leu Asp Leu Leu Ala Gly Phe Tyr Asp Ala Cys Ala Gln |     |     |     |     |     |
|   | 115 |     | 120 |     | 125 |
| Val Glu Ile Asp Glu Tyr Gln Asn Tyr Asp Lys Ala His Gly Ala Leu |     |     |     |     |     |
|   | 130 |     | 135 |     | 140 |
| Thr Glu Ala Tyr Lys Cys Leu Ala Lys Ala Lys Ser Pro Leu         |     |     |     |     |     |
| 145   |     | 150 |     | 155 | 160 |
| Asp Gln Glu Thr Arg Leu Ala Gln Leu Gln Ser Arg Met Ala Leu Val |     |     |     |     |     |
|   | 165 |     | 170 |     | 175 |
| Lys Arg Phe Ile Gln Ala Arg Arg Thr Tyr Thr Glu Asp Pro Lys Glu |     |     |     |     |     |
|   | 180 |     | 185 |     | 190 |
| Ser Ile Lys Gln Cys Glu Leu Leu Leu Glu Glu Pro Asp Leu Asp Ser |     |     |     |     |     |
|   | 195 |     | 200 |     | 205 |
| Thr Ile Arg Ile Gly Asp Val Tyr Gly Phe Leu Val Glu His Tyr Val |     |     |     |     |     |
|   | 210 |     | 215 |     | 220 |
| Arg Lys Glu Glu Tyr Gln Thr Ala Tyr Arg Phe Leu Glu Glu Met Arg |     |     |     |     |     |
| 225   |     | 230 |     | 235 | 240 |
| Arg Arg Leu Pro Leu Ala Asn Met Ser Tyr Tyr Val Ser Pro Gln Ala |     |     |     |     |     |
|   | 245 |     | 250 |     | 255 |
| Val Asp Ala Val His Arg Gly Leu Gly Leu Pro Leu Pro Arg Thr Val |     |     |     |     |     |
|   | 260 |     | 265 |     | 270 |
| Pro Glu Gln Val Arg His Asn Ser Met Glu Asp Ala Arg Glu Leu Asp |     |     |     |     |     |
|   | 275 |     | 280 |     | 285 |
| Glu Glu Val Val Glu Glu Ala Asp Asp Asp Pro                     |     |     |     |     |     |
| 290   |     | 295 |     |     |     |

<210> 11050  
 <211> 1356  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (29).. (460)

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 aggcggggcc atcatccact tcgcttccct cctgagtgac agcattctcc tgggtggccac 180  
 ctgggtgact catagctcct ggctgccag cgggattcca ctgcagctgt ggctgcctgt 240  
 gggatgcggc tgcttcttc tgggcctggc tctgcggtt gtgtactacc actggctgca 300

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ccctagctgc tgctggaagc cgcacctga ccaggtagac ggggcccgga gtctgctttc 360
tccagagggg tatcagctgc ctccagaacag gcgcattgacc catttagcac agaagttttt 420
ccccaaggct aaggatgagg ctgcttcgcc agtgaaggga taggtgaacg gcgtcctttg 480
aagcaggatc agaccagacc agcagagatg gagagtgact ctgttggcag aaggcaggcg 540
aggataagct aacgatgctg ctgtggcctc tatgcactca gcaagagcgg gacgcctgtg 600
ctgggcccggg caccagggat ggtgctgagt cgggcagagg cctcctttca aggagttcac 660
agtgaacaag atgagaaggg ctgggcccctg gaggggtcaag agccccaatt atgtacaaga 720
cactttggga ggaagaaga ctaccttttc cccctgccat tggatatagct ggtgccccaa 780
aacttccacc tccctccctg gccacctcta aaatgactgg tatagggtgt gccccacccc 840
ttagctcccc tatcctgggc taggaggcca caggggctgt cctctagaat tcttccttcc 900
ctccccaca ccattcattc aattcatgaa acaaactttt gccaaagagca gtttatgtgc 960
caggaacatc attctgtccc tgcaacctgg aacaagacca gctaccagcc tagcttcac 1020
cgctacttgc accaaccagt cccgggttag atcccaaatt ctagaagcca gggatgcccc 1080
actctgggtg gcccagtcga gaacctctgg gatctcagtg aagctggcct ggcctctgct 1140
cctgctctca aggggctgct tttcaaccaa gagccttgtg agcctggctc gagccttgca 1200
cagccactga gtatTTTTTT tgccttagcc agtgtacctc ctacctcagt ctatgtgaga 1260
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<210> 11051  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

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<400> 11051
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          20             25             30
Arg Ala Ile Ile His Phe Ala Phe Leu Leu Ser Asp Ser Ile Leu Leu
          35             40             45
Val Ala Thr Trp Val Thr His Ser Ser Trp Leu Pro Ser Gly Ile Pro
          50             55             60
Leu Gln Leu Trp Leu Pro Val Gly Cys Gly Cys Phe Phe Leu Gly Leu
          65             70             75             80
Ala Leu Arg Leu Val Tyr Tyr His Trp Leu His Pro Ser Cys Cys Trp
          85             90             95
Lys Pro Asp Pro Asp Gln Val Asp Gly Ala Arg Ser Leu Leu Ser Pro
          100             105             110
Glu Gly Tyr Gln Leu Pro Gln Asn Arg Arg Met Thr His Leu Ala Gln
          115             120             125
Lys Phe Phe Pro Lys Ala Lys Asp Glu Ala Ala Ser Pro Val Lys Gly
          130             135             140

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<210> 11052  
 <211> 1465

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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (278).. (703)

<400> 11052

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aagcccctct cctcccaccc agcacacggg ccagcctcca ggccagccct ccgcccctc 180
ccagctctca gcaccccgga ggtactccag cagcttgtct ccaatccaag ctcccaatca 240
cccaccgccg cagcccccta cgcaggccac gccactgatg cacaccaaac ccaatagcca 300
gggcccctcc aaccccattg cattgcccag tgagcatgga cttgagcagc catctcacac 360
ccctccccag actccaacgc cccccagtac tccgccccta ggaaaacaga accccagtct 420
gccagctcct cagaccctgg cagggggtaa cctgaaact gcacagccac atgctggaac 480
cttaccgaga ccgagaccag taccaaagcc aaggaaccgg ccagcgtgc cccaccccc 540
ccaacctcct ggtgtccact cagctgggga cagcagcctc accaacacag caccaacagc 600
ttccaagata gtaacagggt ttcagaaccg catgcagca tctttcctga aatgcactca 660
gactcagcca gcaaagacgt gcctggccgc atcctgctgg atatagacaa tgataccgag 720
agcactgccc tgtgaagaaa gccctttccc agccctccac caattccacc ctggcgagtg 780
gagcaggggc aggcgaacct ctttctttgc agaccgaaca gtgaaaagct ttcagtggag 840
gacaaatgag ggctcactg tgccgggacct ggcttctgc acggcccaag gagaacctgg 900
aggccaccac taaagctgaa tgacctgtgt cttgaagaag ttggctttct ttacatggga 960
aggaaatcat gccaaaaaaa tccaaaacaa agaagtacct ggagtggaga gagtattcct 1020
gctgaaacgc gcataggaag cttttgtccc tgctgttaat gcgggcagca cctacagcaa 1080
cttggaatga gtaagaagca gtgcgttaac tatctattta ataaaatgag ctcatattgc 1140
aagtgccta ctctctgcta cctggacgtt cattcttatg tattaggagg gaggctgcgc 1200
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ctcagaacca tgcccatgga tggctgactgc tggctctgtc acctcatcaa actggatgtg 1320
acccatgccg cctcgttgga ttgtcggaat gtagacagaa atgtactgtt cttttttttt 1380
tttaaacaat gtaattgcta cttgataagg accgaacatt attctagttt catgtttaat 1440
ttgaattaaa tatattctgt ggttt 1465

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<210> 11053  
<211> 142  
<212> PRT  
<213> Homo sapiens

<400> 11053

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Met His Thr Lys Pro Asn Ser Gln Gly Pro Pro Asn Pro Met Ala Leu
 1             5             10             15
Pro Ser Glu His Gly Leu Glu Gln Pro Ser His Thr Pro Pro Gln Thr
      20             25             30
Pro Thr Pro Pro Ser Thr Pro Pro Leu Gly Lys Gln Asn Pro Ser Leu
      35             40             45
Pro Ala Pro Gln Thr Leu Ala Gly Gly Asn Pro Glu Thr Ala Gln Pro

```

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 50  |     | 55  |     | 60  |     |     |     |     |     |     |     |     |     |     |     |
| His | Ala | Gly | Thr | Leu | Pro | Arg | Pro | Arg | Pro | Val | Pro | Lys | Pro | Arg | Asn |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Pro | Ser | Val | Pro | Pro | Pro | Pro | Gln | Pro | Pro | Gly | Val | His | Ser | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Asp | Ser | Ser | Leu | Thr | Asn | Thr | Ala | Pro | Thr | Ala | Ser | Lys | Ile | Val |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Gly | Phe | Gln | Asn | Arg | Ile | Ala | Ala | Ser | Phe | Leu | Lys | Cys | Thr | Gln |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Gln | Pro | Ala | Lys | Thr | Cys | Leu | Ala | Ala | Ser | Cys | Trp | Ile |     |     |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

<210> 11054  
 <211> 1166  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (159).. (470)

<400> 11054

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| cctccccagg | aacagtggct | tccttgtatt | ggcgccagcg | atgatgggcc | agctctgtgc  | 120  |
| taaacggagt | cttgctctgt | tgcccaggct | ggagtgcagt | ggtgcgatct | cggctcactg  | 180  |
| cagtctccgc | ctcttgggtt | caggctcatc | cacctgcaga | catggggcgc | agaaagtcaa  | 240  |
| aacgaaagcc | gcctcccaag | aagaagatga | caggcaccct | cgagaccag  | ttcacctgcc  | 300  |
| ccttctgcaa | ccacgagaaa | tccttgtgat | tgaaaatgga | ccgtgcccgc | aacaccggag  | 360  |
| tcctctcttg | taccgtgtgc | ctagaggaat | tccagacgcc | cataacgtat | ctgtcagaac  | 420  |
| ccgtggatgt | gtacagtgat | tggatagacg | cctgogaggc | ggccaatcag | tagcgacaca  | 480  |
| gaggacccgc | cccctgagca | gccccgcgta | ctgtggatcc | agctgttcgg | ttcttggtcca | 540  |
| gagacattcc | aggggtccag | ggtgtgggtc | ctgggctgtc | acagccgtgt | gtgtgtgtgt  | 600  |
| gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | agtgggtgtg | cgtgtgggtg | tgggtgtgag  | 660  |
| tgagtgtggg | tgtgtgtggc | tgacagtgtc | actggggtgg | ccgtgagtgt | gtgctcacag  | 720  |
| gtacgcggtg | gtgtcgggtt | cctgggcctg | aggggcctga | actgatctca | cttggctccg  | 780  |
| aaagcctttg | ctgtgttccc | tgcagcccct | ggccccccag | ccttggggct | ctggctcccc  | 840  |
| ccggcggaat | tgggggactg | tttcctgaca | tcctggacaa | gggaagccca | ctagaggctg  | 900  |
| gaacaggacc | tctccagcct | cctcaccagc | accgtgcccc | tctcaactgg | acttcccgcc  | 960  |
| ctccttctcc | accttctagt | gcccgtggcc | ggggattcaa | agccgccgtt | ccccaggtcc  | 1020 |
| ctgggctggg | ccctgacagg | gagccgcccc | cctccccatg | gtaaccagga | agcccgtttc  | 1080 |
| atgttcagtt | gcttttgtaa | aggaagcaag | ggctgggatg | gggacagctg | tcaatcacia  | 1140 |
| gcccttaaat | aaagcagcca | gcgcac     |            |            |             | 1166 |

<210> 11055  
 <211> 104  
 <212> PRT

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<213> Homo sapiens

<400> 11055

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Arg | Ser | Arg | Leu | Thr | Ala | Val | Ser | Ala | Ser | Trp | Val | Gln | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| His | Pro | Pro | Ala | Asp | Met | Gly | Arg | Arg | Lys | Ser | Lys | Arg | Lys | Pro | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Lys | Lys | Lys | Met | Thr | Gly | Thr | Leu | Glu | Thr | Gln | Phe | Thr | Cys | Pro |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Phe | Cys | Asn | His | Glu | Lys | Ser | Cys | Asp | Val | Lys | Met | Asp | Arg | Ala | Arg |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asn | Thr | Gly | Val | Ile | Ser | Cys | Thr | Val | Cys | Leu | Glu | Glu | Phe | Gln | Thr |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     | 80  |     |
| Pro | Ile | Thr | Tyr | Leu | Ser | Glu | Pro | Val | Asp | Val | Tyr | Ser | Asp | Trp | Ile |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Ala | Cys | Glu | Ala | Ala | Asn | Gln |     |     |     |     |     |     |     |     |
|     |     |     | 100 |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 11056

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (73).. (1131)

<400> 11056

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| cagtatgaaa | gcatggacca  | catccaagct  | gagctgtcgg | ctagagtcac | ggagctggcc | 120  |
| ccagctggga | tgcccaccca  | gcagcaggtc  | ccctttctgt | ctgtgggtgg | ggacattggg | 180  |
| gtccggaccg | ttcagcacca  | agactgcagc  | cccttgagcg | gtgactatgt | cattgaggat | 240  |
| gtgcaagggg | atgacaagcg  | atacttccgt  | cgactgatct | tcctcagcaa | caggaatgtg | 300  |
| gtgcagtccg | aagccagggt  | gctgaaggat  | gtgtotcaca | aagcccagaa | gaagcggaaa | 360  |
| aaggacagga | agaagcagcg  | gcctgtctgat | gcggaggacc | tccttcagcg | cccggggcag | 420  |
| tccattgata | agagttacct  | gtgtttgtgaa | caccacaaag | ccatgatcgc | tggccttgcc | 480  |
| ctgctgagaa | accagagct   | actcctagag  | atcccactgg | cattgtttgt | ggtaggcctg | 540  |
| ggcgggggca | gcctccccct  | ctttgtccac  | gatcaatttc | caaagtcctg | cattgatgct | 600  |
| gtggagatcg | atccctccat  | gttggaagtg  | gccaccagct | ggtttggctt | ctcccagagt | 660  |
| gaccgaatga | aggtccacat  | tgcagatggc  | ctggactata | tcgccagctt | ggcaggagga | 720  |
| ggagaagcac | ggccttgcta  | cgatgtcata  | atgtttgatg | ttgacagtaa | ggaccaaca  | 780  |
| ctgggaatga | gttgtccgcc  | cccagcattt  | gtggagcaat | cttttctaca | gaaggttaaa | 840  |
| agcatcttga | ctcctgaagg  | tgtttttatt  | ctcaaccttg | tgtgccgaga | cttggggcta | 900  |
| aaagactcag | tgctggctgg  | gctcaaggca  | gtgttcccc  | tcctatatgt | ctggcgaatt | 960  |
| gagggtgaag | tgaatgagat  | cctgttctgt  | cagctgcacc | ctgagcaaaa | acttgccaca | 1020 |
| ccagagctcc | tagaaacagc  | ccaggctttg  | gagcggaccc | tgaggaagcc | tgaggagggt | 1080 |
| tgggatgaca | cgtatgtctt  | gtcagatatg  | ctcaagacgg | tgaaaattgt | gtgactgctt | 1140 |

-4507/13211-

aggccaagca gccctcctgc ctagactgac ctiggactcc cagcctgccagaagaatgaag 1200  
aaatacaacg cacagtactt ttgaagcttc gtatttttct tggtttcaca ctcagctaca 1260  
tgtgacctcc agcttggtga ggttgctga agattaggga aaataaaaaat gtccttccca 1320  
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<210> 11057

<211> 353

<212> PRT

<213> Homo sapiens

<400> 11057

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | His | Ile | Gln | Ala | Glu | Leu | Ser | Ala | Arg | Val | Met | Glu | Leu | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro | Ala | Gly | Met | Pro | Thr | Gln | Gln | Gln | Val | Pro | Phe | Leu | Ser | Val | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Asp | Ile | Gly | Val | Arg | Thr | Val | Gln | His | Gln | Asp | Cys | Ser | Pro | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Gly | Asp | Tyr | Val | Ile | Glu | Asp | Val | Gln | Gly | Asp | Asp | Lys | Arg | Tyr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Arg | Arg | Leu | Ile | Phe | Leu | Ser | Asn | Arg | Asn | Val | Val | Gln | Ser | Glu |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Ala | Arg | Leu | Leu | Lys | Asp | Val | Ser | His | Lys | Ala | Gln | Lys | Lys | Arg | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Asp | Arg | Lys | Lys | Gln | Arg | Pro | Ala | Asp | Ala | Glu | Asp | Leu | Pro | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Pro | Gly | Gln | Ser | Ile | Asp | Lys | Ser | Tyr | Leu | Cys | Cys | Glu | His | His |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Lys | Ala | Met | Ile | Ala | Gly | Leu | Ala | Leu | Leu | Arg | Asn | Pro | Glu | Leu | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Glu | Ile | Pro | Leu | Ala | Leu | Leu | Val | Val | Gly | Leu | Gly | Gly | Gly | Ser |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Leu | Pro | Leu | Phe | Val | His | Asp | Gln | Phe | Pro | Lys | Ser | Cys | Ile | Asp | Ala |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Val | Glu | Ile | Asp | Pro | Ser | Met | Leu | Glu | Val | Ala | Thr | Gln | Trp | Phe | Gly |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Phe | Ser | Gln | Ser | Asp | Arg | Met | Lys | Val | His | Ile | Ala | Asp | Gly | Leu | Asp |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Tyr | Ile | Ala | Ser | Leu | Ala | Gly | Gly | Gly | Glu | Ala | Arg | Pro | Cys | Tyr | Asp |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Val | Ile | Met | Phe | Asp | Val | Asp | Ser | Lys | Asp | Pro | Thr | Leu | Gly | Met | Ser |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Cys | Pro | Pro | Pro | Ala | Phe | Val | Glu | Gln | Ser | Phe | Leu | Gln | Lys | Val | Lys |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Ile | Leu | Thr | Pro | Glu | Gly | Val | Phe | Ile | Leu | Asn | Leu | Val | Cys | Arg |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Asp | Leu | Gly | Leu | Lys | Asp | Ser | Val | Leu | Ala | Gly | Leu | Lys | Ala | Val | Phe |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |

09629469.072800

Pro Leu Leu Tyr Val Trp Arg Ile Glu Gly Glu Val Asn Glu Ile Leu  
290 295 300  
Phe Cys Gln Leu His Pro Glu Gln Lys Leu Ala Thr Pro Glu Leu Leu  
305 310 315 320  
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<212> PRT  
<213> Homo sapiens

<400> 11059

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Gln | Met | Ala | Asn | Phe | Val | Tyr | Asn | Met | Tyr | Met | His | Leu | Ile |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Thr | Thr | His | His | Tyr | His | Gln | Thr | Leu | Leu | Gln | Leu | Pro | Pro | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Met | Val | Glu | Gly | Glu | Glu | Val | Gln | Asn | Gln | Glu | Thr | Glu | Leu | Glu |     |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Thr | Glu | Glu | Glu | Ala | Met | Thr | Val | Gln | Ala | Asp | Ile | Ile | Pro | Ser | Pro |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Thr | Asp | Thr | Ser | Cys | Arg | Gln | Glu | Thr | Pro | Ala | Phe | Gln | Thr | Asp | Thr |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Thr | Pro | Ser | Glu | Thr | Gly | Ala | Thr | Ser | Thr | Pro | Glu | Ala | Ile | Leu | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Ser | Glu | Thr | Thr | Pro | Thr | Val | Val | Gly | Ala | Val | Ser | Ala | Pro | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Ala | Asn | Thr | Pro | Gln | Asp | Ala | Thr | Ser | Ala | Pro | Glu | Glu | Thr | Lys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |

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<212> DNA  
<213> Homo sapiens

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<222> (129).. (1277)

<400> 11060

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cctttggaat tcaactgaaa aggaacaaaa cagagaaagt aaaaggacga gacaatggga 240  
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aagttccctt ggtattacaa aaattttttg agaaagttag ggaatcaggt ctggaatctg 360  
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atgccaaagt taatgctgat aaatttaaat gggacaaaat gtgccataga gaagctgcag 480  
taatgttgaa agcgtttttc agagaactac ccacctctct cttccctgtg gaatatatac 540  
ctgccttcat cagtctaata gaaagagggc ctcacgtcaa agtacagttt caagccttac 600

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gcctggacat ctccacatag gcagtcatat agagacttga aatatcattc aagggtttg 1320
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cctttcgtag aaagaaaatg ttcttaataa aaatgtatta gaact 1425

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<210> 11061  
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 <212> PRT  
 <213> Homo sapiens

<400> 11061

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Lys | Ile | Arg | His | Leu | Ser | Leu | Ile | Glu | Leu | Thr | Ala | Phe | Phe | 1   | 5   | 10  | 15  |
| Asp | Ala | Phe | Gly | Ile | Gln | Leu | Lys | Arg | Asn | Lys | Thr | Glu | Lys | Val | Lys | 20  | 25  | 30  |     |
| Gly | Arg | Asp | Asn | Gly | Ile | Phe | Gly | Val | Pro | Leu | Thr | Val | Leu | Leu | Asp | 35  | 40  | 45  |     |
| Gly | Asp | Arg | Lys | Lys | Asp | Pro | Gly | Val | Lys | Val | Pro | Leu | Val | Leu | Gln | 50  | 55  | 60  |     |
| Lys | Phe | Phe | Glu | Lys | Val | Glu | Glu | Ser | Gly | Leu | Glu | Ser | Glu | Gly | Ile | 65  | 70  | 75  | 80  |
| Phe | Arg | Leu | Ser | Gly | Cys | Thr | Ala | Lys | Val | Lys | Gln | Tyr | Arg | Glu | Glu | 85  | 90  | 95  |     |
| Leu | Asp | Ala | Lys | Phe | Asn | Ala | Asp | Lys | Phe | Lys | Trp | Asp | Lys | Met | Cys | 100 | 105 | 110 |     |
| His | Arg | Glu | Ala | Ala | Val | Met | Leu | Lys | Ala | Phe | Phe | Arg | Glu | Leu | Pro | 115 | 120 | 125 |     |
| Thr | Ser | Leu | Phe | Pro | Val | Glu | Tyr | Ile | Pro | Ala | Phe | Ile | Ser | Leu | Met | 130 | 135 | 140 |     |
| Glu | Arg | Gly | Pro | His | Val | Lys | Val | Gln | Phe | Gln | Ala | Leu | His | Leu | Met | 145 | 150 | 155 | 160 |
| Val | Met | Ala | Leu | Pro | Asp | Ala | Asn | Arg | Asp | Ala | Ala | Gln | Ala | Leu | Met | 165 | 170 | 175 |     |
| Thr | Phe | Phe | Asn | Lys | Val | Ile | Ala | Asn | Glu | Ser | Lys | Asn | Arg | Met | Ser | 180 | 185 | 190 |     |
| Leu | Trp | Asn | Ile | Ser | Thr | Val | Met | Ala | Pro | Asn | Leu | Phe | Ser | Arg | 195 | 200 | 205 |     |     |

002220.69462960

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Lys | His | Ser | Asp | Tyr | Glu | Glu | Leu | Leu | Leu | Ala | Asn | Thr | Ala | Ala |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| His | Ile | Ile | Arg | Leu | Met | Leu | Lys | Tyr | Gln | Lys | Ile | Leu | Trp | Lys | Val |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Ser | Phe | Leu | Ile | Thr | Gln | Val | Arg | Arg | Met | Asn | Glu | Ala | Thr | Met |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Leu | Lys | Lys | Gln | Leu | Pro | Ser | Val | Arg | Lys | Leu | Leu | Arg | Arg | Lys |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Thr | Leu | Glu | Arg | Glu | Thr | Ala | Ser | Pro | Lys | Thr | Ser | Lys | Val | Leu | Gln |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Lys | Ser | Pro | Ser | Ala | Arg | Arg | Met | Ser | Asp | Val | Pro | Glu | Gly | Val | Ile |
| 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Arg | Val | His | Ala | Pro | Leu | Ser | Lys | Val | Ser | Met | Ala | Ile | Gln | Leu |     |
| 305 |     |     |     |     | 310 |     |     |     | 315 |     |     |     |     | 320 |     |
| Asn | Asn | Gln | Thr | Lys | Ala | Lys | Asp | Ile | Leu | Ala | Lys | Phe | Gln | Tyr | Glu |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Asn | Arg | Ile | Leu | His | Trp | Gln | Arg | Ala | Ala | Leu | Ser | Phe | Leu | Asn | Gly |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Lys | Trp | Val | Lys | Lys | Glu | Arg | Glu | Glu | Ser | Thr | Glu | Thr | Asn | Arg | Ser |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |
| Pro | Lys | His | Val | Phe | Leu | Phe | Thr | Ile | Gly | Leu | Asp | Ile | Ser | Thr |     |
| 370 |     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |

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 <212> DNA  
 <213> Homo sapiens

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 <222> (794).. (1648)

<400> 11062

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| aagacacaga | ggacaaaagaa | ggttggtcaga | tggacaaaaga | gccatctgct | gttaaaaaaaa | 120 |
| agcccaagcc | tacaaaccca  | gtggagatta  | aagaggagct  | gaaaagcacg | tcaccagcca  | 180 |
| gcgagaaggc | agaccctgga  | gcagtcaagg  | acaaggccag  | ccctgagcct | gagaaggact  | 240 |
| tttccgaaaa | ggcaaaacct  | tcacctcacc  | ccataaagga  | taaactgaag | ggaaaagatg  | 300 |
| agacggattc | cccaacagtc  | catttggggc  | tggactctga  | ttcagagagc | gaacttgtca  | 360 |
| tagatttagg | agaagaccat  | tctgggcggg  | agggtcgaaa  | aaataagaag | gaacccaaag  | 420 |
| aaccatctcc | caaacaggat  | ggcattggct  | agttgtaggt  | aaaactccac | catccacgac  | 480 |
| ggtgggcagc | cattctcccc  | cggaaacacc  | ggtgctcacc  | cgctcttccg | cccaaacttc  | 540 |
| cgcggctggc | gccacagcca  | ccaccagcac  | gtcctccacg  | gtcaccgtca | cggccccggc  | 600 |
| ccccgccgcc | acaggaagcc  | cagtgaaaaa  | gcagaggccg  | cttttaccga | aggagactgc  | 660 |
| cccgccgtg  | cagcgggtcg  | tgtggaactc  | atcaactgtc  | cagcagaagg | agatcacaca  | 720 |
| gagcccatcc | acgtccacca  | tcaccttggt  | gaccagcaca  | cagtcatcgc | ccctggtcac  | 780 |
| cagctcgggg | tccatgagca  | cccttggtgc  | ctcagtcaac  | gotgacctgc | ccatcgccac  | 840 |

0032/0" 69462960

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 <212> PRT  
 <213> Homo sapiens

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<400> 11063
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          35             40             45
Lys Asn Thr Thr Gly Ser Thr Ile Ala Glu Ile Arg Arg Leu Arg Ile
          50             55             60
Glu Ile Glu Lys Leu Gln Trp Leu His Gln Gln Glu Leu Ser Glu Met
          65             70             75             80
Lys His Asn Leu Glu Leu Thr Met Ala Glu Met Arg Gln Ser Leu Glu
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Gln Glu Arg Asp Arg Leu Ile Ala Glu Val Lys Lys Gln Leu Glu Leu
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Glu Lys Gln Gln Ala Val Asp Glu Thr Lys Lys Lys Gln Trp Cys Ala
          115            120            125
Asn Cys Lys Lys Glu Ala Ile Phe Tyr Cys Cys Trp Asn Thr Ser Tyr
          130            135            140
Cys Asp Tyr Pro Cys Gln Gln Ala His Trp Pro Glu His Met Lys Ser
          145            150            155            160
Cys Thr Gln Ser Ala Thr Ala Pro Gln Gln Glu Ala Asp Ala Glu Val

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |  |  |
| Asn | Thr | Glu | Thr | Leu | Asn | Lys | Ser | Ser | Gln | Gly | Ser | Ser | Ser | Ser | Thr |  |  |  |  |
|     |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |  |  |  |  |
| Gln | Ser | Ala | Pro | Ser | Glu | Thr | Ala | Ser | Ala | Ser | Lys | Glu | Lys | Glu | Thr |  |  |  |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |  |  |
| Ser | Ala | Glu | Lys | Ser | Lys | Glu | Ser | Gly | Ser | Thr | Leu | Asp | Leu | Ser | Gly |  |  |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |  |  |
| Ser | Arg | Glu | Thr | Pro | Ser | Ser | Ile | Leu | Leu | Gly | Ser | Asn | Gln | Gly | Ser |  |  |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |  |
| Asp | His | Ser | Arg | Ser | Asn | Lys | Ser | Ser | Trp | Ser | Ser | Ser | Asp | Glu | Lys |  |  |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     | 255 |     |     |  |  |  |  |
| Arg | Gly | Ser | Thr | Arg | Ser | Asp | His | Asn | Thr | Ser | Thr | Ser | Thr | Lys | Ser |  |  |  |  |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |  |  |
| Leu | Leu | Pro | Lys | Glu | Ser | Arg | Leu | Asp | Thr | Phe | Trp | Asp |     |     |     |  |  |  |  |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |  |  |

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<400> 11064

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| tgagcgatgg  | tcctttcctt  | ctgccacggc | gggatcgggc  | actcaccag  | ttgcaagtgc | 120  |
| gagcactatg  | gagtagcgca  | gggtctcgag | ctgtggccgt  | ggacttaggc | aacaggaaat | 180  |
| tagaaatatc  | ttctggaaag  | ctggccagat | ttgcagatgg  | ctctgctgta | gtacagtcag | 240  |
| gtgacactgc  | agtaatggtc  | acagcgggtc | gtaaaacaaa  | accttccctt | tcccagttta | 300  |
| tgcctttggg  | ggttgactac  | agacaaaaag | ctgctgcagc  | aggtagaatt | cccacaaact | 360  |
| atctgagaag  | agaggttggg  | acttctgata | aagaaattct  | aacaagtcga | ataatagatc | 420  |
| gttcaattag  | accgctcttt  | ccagctggct | acttctatga  | tacacagggt | ctgtgtaatc | 480  |
| tgttagcagt  | agatgggtgta | aatgagcctg | atgtcctagc  | aattaatggc | gcttccgtag | 540  |
| ccctctcatt  | atcagatatt  | ccttggaatg | gacctgttgg  | ggcagtagca | ataggaataa | 600  |
| ttgatggaga  | atatgtttgt  | aacccaacaa | gaaaagaaat  | gtcttctagt | actttaaatt | 660  |
| tagtggttgc  | tggagcacct  | aaaagtcaga | ttgtcatgtt  | ggaagcctct | gcagagaaca | 720  |
| ttttacagca  | ggacttttgc  | catgotatca | aagtggggagt | gaaatatacc | caacaaataa | 780  |
| ttcaggggcat | tcagcagttg  | gtaaaagaaa | ctgggtgttac | caagaggaca | cctcagaagt | 840  |
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| atgcagtttt  | tacagattac  | gagcatgaca | aagtttccag  | agatgaagct | gttaacaaaa | 960  |
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| taatagaatc  | cttcaatggt  | gttgcaaagg | aagtttttag  | aagtattggt | ttgaatgaat | 1080 |
| acaaaagggtg | cgatgggtcgg | gatttgactt | cacttaggaa  | tgtaagttgt | gaggtagata | 1140 |
| tgtttaaaac  | ccttcatgga  | tcagcattat | ttcaaagagg  | acaaacacag | gtgctttgta | 1200 |
| ccgttacatt  | tgattcatta  | gaatctggta | ttaagtcaga  | tcaagttata | acagctataa | 1260 |

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Pro Gln Lys Leu Phe Thr Pro Ser Pro Glu Ile Val Lys Tyr Thr His
          275          280          285
Lys Leu Ala Met Glu Arg Leu Tyr Ala Val Phe Thr Asp Tyr Glu His
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Asp Lys Val Ser Arg Asp Glu Ala Val Asn Lys Ile Arg Leu Asp Thr
305          310          315          320
Glu Glu Gln Leu Lys Glu Lys Phe Pro Glu Ala Asp Pro Tyr Glu Ile
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Ile Glu Ser Phe Asn Val Val Ala Lys Glu Val Phe Arg Ser Ile Val
          340          345          350
Leu Asn Glu Tyr Lys Arg Cys Asp Gly Arg Asp Leu Thr Ser Leu Arg
          355          360          365
Asn Val Ser Cys Glu Val Asp Met Phe Lys Thr Leu His Gly Ser Ala
          370          375          380
Leu Phe Gln Arg Gly Gln Thr Gln Val Leu Cys Thr Val Thr Phe Asp
385          390          395          400
Ser Leu Glu Ser Gly Ile Lys Ser Asp Gln Val Ile Thr Ala Ile Asn
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Gly Ile Lys Asp Lys Asn Phe Met Leu His Tyr Glu Phe Pro Pro Tyr
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Gly His Gly Ala Leu Ala Glu Lys Ala Leu Tyr Pro Val Ile Pro Arg
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Asp Phe Pro Ser Leu Ser Ala Ile Phe Pro Arg Arg His Asn Gly Ala
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<211> 157

<212> PRT

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Pro Ser Asp Gln Val Glu Val His Leu Glu Leu Asp Leu Pro Thr Gln
        35          40          45
Leu Thr Ser Val Trp Gln Val Met Ser Thr Val Pro Leu Ala Pro Leu
        50          55          60
Pro Gly Gln Leu Ser Leu Gly Pro Pro Gly Ala Leu Gly Phe Pro
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Gln Gln Gly Gly Pro Thr Gln Leu Pro Leu Leu Arg Glu Val Gly
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-4517/13211-

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Ala Leu Gln Pro Leu Gly Glu Arg Pro Gly His Leu Gln Asn His Ala  
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<213> Homo sapiens

<400> 11069

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Met | Val | Thr | Thr | Ile | Val | Leu | Gly | Arg | Arg | Phe | Ile | Gly | Ser | Ile | Val | 1   | 5   | 10  | 15 |
| Lys | Glu | Ala | Ser | Gln | Arg | Gly | Lys | Val | Ser | Leu | Phe | Arg | Ser | Ile | Leu | 20  | 25  | 30  |    |
| Leu | Phe | Leu | Thr | Arg | Phe | Thr | Val | Leu | Thr | Ala | Thr | Gly | Trp | Ser | Leu | 35  | 40  | 45  |    |
| Cys | Arg | Ser | Leu | Ile | His | Leu | Phe | Arg | Thr | Tyr | Ser | Phe | Leu | Asn | Leu | 50  | 55  | 60  |    |
| Leu | Phe | Leu | Cys | Tyr | Pro | Phe | Gly | Met | Tyr | Ile | Pro | Phe | Leu | Gln | Leu | 65  | 70  | 75  |    |
| Asn | Cys | Asp | Leu | Arg | Lys | Thr | Ser | Leu | Phe | Asn | His | Met | Ala | Ser | Met | 85  | 90  | 95  |    |
| Gly | Pro | Arg | Glu | Ala | Val | Ser | Gly | Leu | Ala | Lys | Ser | Arg | Asp | Tyr | Leu | 100 | 105 | 110 |    |
| Leu | Thr | Leu | Arg | Glu | Thr | Trp | Lys | Gln | His | Thr | Arg | Gln | Leu | Tyr | Gly | 115 | 120 | 125 |    |
| Pro | Asp | Ala | Met | Pro | Thr | His | Ala | Cys | Cys | Leu | Ser | Pro | Ser | Leu | Ile | 130 | 135 | 140 |    |
| Arg | Ser | Glu | Val | Glu | Phe | Leu | Lys | Met | Asp | Phe | Asn | Trp | Arg | Met | Lys | 145 | 150 | 155 |    |
| Glu | Val | Leu | Val | Ser | Ser | Met | Leu | Ser | Ala | Tyr | Tyr | Val | Ala | Phe | Val | 165 | 170 | 175 |    |
| Pro | Val | Trp | Phe | Val | Lys | Asn | Thr | His | Tyr | Tyr | Asp | Lys | Arg | Trp | Ser | 180 | 185 | 190 |    |
| Cys | Glu | Leu | Phe | Leu | Leu | Val | Ser | Ile | Ser | Thr | Ser | Val | Ile | Leu | Met | 195 | 200 | 205 |    |
| Gln | His | Leu | Leu | Pro | Ala | Ser | Tyr | Cys | Asp | Leu | Leu | His | Lys | Ala | Ala | 210 | 215 | 220 |    |
| Ala | His | Leu | Gly | Cys | Trp | Gln | Lys | Val | Asp | Pro | Ala | Leu | Cys | Ser | Asn | 225 | 230 | 235 |    |
| Val | Leu | Gln | His | Pro | Trp | Thr | Glu | Glu | Cys | Met | Trp | Pro | Gln | Gly | Val | 245 | 250 | 255 |    |
| Leu | Val | Lys | His | Ser | Lys | Asn | Val | Tyr | Lys | Ala | Val | Gly | His | Tyr | Asn | 260 | 265 | 270 |    |
| Val | Ala | Ile | Pro | Ser | Asp | Val | Ser | His | Phe | Arg | Phe | His | Phe | Phe | Phe | 275 | 280 | 285 |    |
| Ser | Lys | Pro | Leu | Arg | Ile | Leu | Asn | Ile | Leu | Leu | Leu | Glu | Gly | Ala |     | 290 | 295 | 300 |    |

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Val Ile Val Tyr Gln Leu Tyr Ser Leu Met Ser Ser Glu Lys Trp His  
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Gln Thr Ile Ser Leu Ala Leu Ile Leu Phe Ser Asn Tyr Tyr Ala Phe  
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<212> DNA

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| Met | Asp | Asp | Met | Asp | Arg | Asp | Leu | Gly | Asp | Glu | Tyr | Gly | Trp | Lys | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | His | Gly | Asp | Val | Phe | Arg | Pro | Ser | Ser | His | Pro | Leu | Ile | Phe | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Leu | Ile | Gly | Ser | Gly | Cys | Gln | Ile | Phe | Ala | Val | Ser | Leu | Ile | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Ile | Val | Ala | Met | Ile | Glu | Asp | Leu | Tyr | Thr | Glu | Arg | Gly | Ser | Met |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ser | Thr | Ala | Ile | Phe | Val | Tyr | Ala | Ala | Thr | Ser | Pro | Val | Asn | Gly |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Tyr | Phe | Gly | Gly | Ser | Leu | Tyr | Ala | Arg | Gln | Gly | Gly | Arg | Arg | Trp | Ile |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Gln | Met | Phe | Ile | Gly | Ala | Phe | Leu | Ile | Pro | Ala | Met | Val | Cys | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Ala | Phe | Phe | Ile | Asn | Phe | Ile | Ala | Ile | Tyr | Tyr | His | Ala | Ser | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Ile | Pro | Phe | Gly | Thr | Met | Val | Ala | Val | Cys | Cys | Ile | Cys | Phe | Phe |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Ile | Leu | Pro | Leu | Asn | Leu | Val | Gly | Thr | Ile | Leu | Gly | Arg | Asn | Leu |
|     |     | 145 |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Ser | Gly | Gln | Pro | Asn | Phe | Pro | Cys | Arg | Val | Asn | Ala | Val | Pro | Arg | Pro |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Ile | Pro | Glu | Lys | Lys | Trp | Phe | Met | Glu | Pro | Ala | Val | Ile | Val | Cys | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Gly | Ile | Leu | Pro | Phe | Gly | Ser | Ile | Phe | Ile | Glu | Met | Tyr | Phe | Ile |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Thr | Ser | Phe | Trp | Ala | Tyr | Lys | Ile | Tyr | Tyr | Val | Tyr | Gly | Phe | Met |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Met | Leu | Val | Leu | Val | Ile | Leu | Cys | Ile | Val | Thr | Val | Cys | Val | Thr | Ile |

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| 225 |     | 230 |     | 235 |     | 240 |     |     |     |     |     |     |     |     |     |
| Val | Cys | Thr | Tyr | Phe | Leu | Leu | Asn | Ala | Glu | Asp | Tyr | Arg | Trp | Gln | Trp |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Thr | Ser | Phe | Leu | Ser | Ala | Ala | Ser | Thr | Ala | Ile | Tyr | Val | Tyr | Met | Tyr |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Phe | Tyr | Tyr | Tyr | Phe | Phe | Lys | Thr | Lys | Met | Tyr | Gly | Leu | Phe | Gln |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Thr | Ser | Phe | Tyr | Phe | Gly | Tyr | Met | Ala | Val | Phe | Ser | Thr | Ala | Leu | Gly |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Met | Cys | Gly | Ala | Ile | Gly | Tyr | Met | Gly | Thr | Ser | Ala | Phe | Val | Arg |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Ile | Tyr | Thr | Asn | Val | Lys | Ile | Asp |     |     |     |     |     |     |     |
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| Met | Ser | Val | Tyr | Asn | Ser | Glu | Lys | Cys | Ser | Tyr | Asp | Gly | Val | Glu | Asp |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Lys | Arg | Ile | Met | Gly | Met | Gln | Leu | Asp | Arg | Ala | Ser | Ser | Ser | Leu | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ala | Phe | Ser | Thr | Cys | Val | Ile | Lys | Val | Pro | Leu | Gly | Arg | Cys | Glu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | His | Gly | Lys | Cys | Lys | Lys | Thr | Cys | Ile | Ala | Ser | Arg | Asp | Pro | Tyr |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Cys | Gly | Trp | Ile | Lys | Glu | Gly | Gly | Ala | Cys | Ser | His | Leu | Ser | Pro | Asn |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ser | Arg | Leu | Thr | Phe | Glu | Gln | Asp | Ile | Glu | Arg | Gly | Asn | Thr | Asp | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Gly | Asp | Cys | His | Asn | Ser | Phe | Val | Ala | Leu | Asn | Gly | Val | Ile | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Ser | Tyr | Leu | Lys | Gly | His | Asp | Gln | Leu | Val | Pro | Val | Thr | Leu | Leu |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Ile | Ala | Val | Ile | Leu | Ala | Phe | Val | Met | Gly | Ala | Val | Phe | Ser | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ile | Thr | Val | Tyr | Cys | Val | Cys | Asp | His | Arg | Arg | Lys | Asp | Val | Ala | Val |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Val | Gln | Arg | Lys | Glu | Lys | Glu | Leu | Thr | His | Ser | Arg | Arg | Gly | Ser | Met |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Ser | Val | Thr | Lys | Leu | Ser | Gly | Leu | Phe | Gly | Asp | Thr | Gln | Ser | Lys |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Pro | Lys | Pro | Glu | Ala | Ile | Leu | Thr | Pro | Leu | Met | His | Asn | Gly | Lys |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Leu | Ala | Thr | Pro | Gly | Asn | Thr | Ala | Lys | Met | Leu | Ile | Lys | Ala | Asp | Gln |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
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| 210 |     |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |  |
| His | His | Leu | Asp | Leu | Thr | Ala | Leu | Pro | Thr | Pro | Glu | Ser | Thr | Pro | Thr |     |  |
| 225 |     |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     |     | 240 |  |
| Leu | Gln | Gln | Lys | Arg | Lys | Pro | Ser | Arg | Gly | Ser | Arg | Glu | Trp | Glu | Arg |     |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |  |
| Asn | Gln | Asn | Leu | Ile | Asn | Ala | Cys | Thr | Lys | Asp | Met | Pro | Pro | Met | Gly |     |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |  |
| Ser | Pro | Val | Ile | Pro | Thr | Asp | Leu | Pro | Leu | Arg | Ala | Ser | Pro | Ser | His |     |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |  |
| Ile | Pro | Ser | Val | Val | Val | Leu | Pro | Ile | Thr | Gln | Gln | Gly | Tyr | Gln | His |     |  |
| 290 |     |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |  |
| Glu | Tyr | Val | Asp | Gln | Pro | Lys | Met | Ser | Glu | Val | Ala | Gln | Met | Ala | Leu |     |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |     |  |
| Glu | Asp | Gln | Ala | Ala | Thr | Leu | Glu | Tyr | Lys | Thr | Ile | Lys | Glu | His | Leu |     |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |  |
| Ser | Ser | Lys | Ser | Pro | Asn | His | Gly | Val | Asn | Leu | Val | Glu | Asn | Leu | Asp |     |  |
|     |     |     | 340 |     |     |     | 345 |     |     |     |     |     | 350 |     |     |     |  |
| Ser | Leu | Pro | Pro | Lys | Val | Pro | Gln | Arg | Glu | Ala | Ser | Leu | Gly | Pro | Pro |     |  |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |     |  |
| Gly | Ala | Ser | Leu | Ser | Gln | Thr | Gly | Leu | Ser | Lys | Arg | Leu | Glu | Met | His |     |  |
| 370 |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |     |  |
| His | Ser | Ser | Ser | Tyr | Gly | Val | Asp | Tyr | Lys | Arg | Ser | Tyr | Pro | Thr | Asn |     |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |     |  |
| Ser | Leu | Thr | Arg | Ser | His | Gln | Ala | Thr | Thr | Leu | Lys | Arg | Asn | Asn | Thr |     |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |  |
| Asn | Ser | Ser | Asn | Ser | Ser | His | Leu | Ser | Arg | Asn | Gln | Ser | Phe | Gly | Arg |     |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |  |
| Gly | Asp | Asn | Pro | Pro | Pro | Ala | Pro | Gln | Arg | Val | Asp | Ser | Ile | Gln | Val |     |  |
|     |     | 435 |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |     |  |
| His | Ser | Ser | Gln | Pro | Ser | Gly | Gln | Ala | Val | Thr | Val | Ser | Arg | Gln | Pro |     |  |
| 450 |     |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |     |  |
| Ser | Leu | Asn | Ala | Tyr | Asn | Ser | Leu | Thr | Arg | Ser | Gly | Leu | Lys | Arg | Thr |     |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |     |  |
| Pro | Ser | Leu | Lys | Pro | Asp | Val | Pro | Pro | Lys | Pro | Ser | Phe | Ala | Pro | Leu |     |  |
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| Met | Phe | Thr | Pro | Lys | Leu | Glu | Ile | Met | Leu | Glu | Pro | Lys | Val | Trp | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Ala | Ala | Thr | Gln | Val | Phe | Phe | Ala | Leu | Gly | Leu | Gly | Phe | Gly | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ile | Ala | Phe | Ser | Ser | Tyr | Asn | Lys | Arg | Asp | Asn | Asn | Cys | His | Phe |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Ala | Val | Leu | Val | Ser | Phe | Ile | Asn | Phe | Phe | Thr | Ser | Val | Leu | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Thr | Leu | Val | Val | Phe | Ala | Val | Leu | Gly | Phe | Lys | Ala | Asn | Val | Ile | Asn |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Lys | Cys | Ile | Thr | Gln | Asn | Ser | Glu | Thr | Ile | Met | Lys | Phe | Leu | Lys |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Met | Gly | Asn | Ile | Ser | Gln | Asp | Ile | Ile | Pro | His | His | Ile | Asn | Leu | Ser |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Val | Thr | Val | Glu | Asp | Tyr | His | Leu | Val | Tyr | Asp | Ile | Ile | Gln | Lys |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Val | Lys | Glu | Glu | Glu | Phe | Pro | Ala | Leu | His | Leu | Asn | Ser | Cys | Lys | Ile |
|     | 130 |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |     |
| Glu | Glu | Glu | Leu | Asn | Lys | Ala | Val | Gln | Gly | Thr | Gly | Leu | Ala | Phe | Ile |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Val | Met | Phe | Phe | Leu | Met | Leu | Val | Asn | Leu | Gly | Leu | Gly | Ser | Met | Phe |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Thr | Ile | Glu | Gly | Ile | Val | Thr | Pro | Ile | Val | Asp | Thr | Phe | Lys | Val |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
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|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Leu | Ile | Leu | Cys | Asn | Ala | Leu | Glu | Ile | Thr | Leu | Leu | Gln | Cys | Leu |
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| Glu | Thr | Asp | Ser | Leu | Ser | Asp | Glu | Val | Thr | His | Asn | Ser | Asn | Gln | Asn |  |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |
| Asn | Ser | Asn | Cys | Ser | Ser | Pro | Ser | Arg | Met | Ser | Asp | Ser | Val | Ser | Leu |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |
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| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |  |
| Thr | His | Ile | Asp | Ile | Asn | Ser | Lys | Ile | Arg | Gln | Glu | Asp | Glu | Asn | Phe |  |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |  |
| Asn | Ser | Leu | Leu | Gln | Asn | Gly | Asp | Ile | Leu | Asn | Ser | Ser | Thr | Glu | Glu |  |
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| Thr | Ala | Thr | Ala | Asp | Asp | Thr | His | Lys | Leu | Asp | His | Ile | Asn | Met | Asn |  |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |  |
| Leu | Asn | Lys | Leu | Ile | Thr | Asn | Asp | Thr | Phe | Gln | Pro | Glu | Ile | Met | Glu |  |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |  |
| Arg | Ser | Lys | Thr | Gln | Asp | Ile | Val | Leu | Gly | Thr | Ser | Phe | Leu | Ser | Ile |  |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |  |
| Asn | Ser | Lys | Glu | Glu | Thr | Gly | His | Leu | Glu | Asn | Gly | Asn | Lys | Tyr | Pro |  |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |  |
| Asn | Leu | Glu | Ser | Val | Asn | Lys | Val | Asn | Gly | His | Ser | Glu | Glu | Thr | Ser |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |
| Gln | Ser | Pro | Asn | Arg | Thr | Glu | Pro | His | Asp | Ser | Asp | Cys | Ser | Val | Asp |  |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |     |  |
| Leu | Gly | Ile | Ser | Lys | Ser | Thr | Glu | Asp | Leu | Ser | Pro | Gln | Lys | Ser | Gly |  |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 |     |     |  |
| Pro | Val | Gly | Ser | Val | Val | Lys | Ser | His | Ser | Ile | Thr | Asn | Met | Glu | Ile |  |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |  |
| Gly | Gly | Leu | Lys | Ile | Tyr | Asp | Ile | Leu | Ser | Asp | Asn | Gly | Pro | Gln | Gln |  |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |  |
| Pro | Ser | Thr | Thr | Val | Lys | Ile | Thr | Ser | Ala | Val | Asp | Gly | Lys | Asn | Ile |  |
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| Val | Arg | Ser | Lys | Ser | Ala | Thr | Leu | Leu | Tyr | Asp | Gln | Pro | Leu | Gln | Val |
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| Phe | Thr | Gly | Ser | Ser | Ser | Ser | Ser | Asp | Leu | Ile | Ser | Gly | Thr | Lys | Ala |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
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|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Arg | Gly | Pro | Thr | Ser | Gly | Pro | Gln | Ser | Ala | Pro | Gln | Ile | Tyr | Gly | Pro |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Pro | Gln | Tyr | Asn | Ile | Gln | Tyr | Ser | Ser | Ser | Ala | Ala | Val | Lys | Asp | Thr |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Leu | Trp | His | Ser | Lys | Gln | Asn | Pro | Gln | Ile | Asp | His | Ala | Ser | Phe | Pro |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Pro | Gln | Leu | Leu | Pro | Arg | Ser | Glu | Ser | Thr | Glu | Asn | Gln | Ser | Tyr | Ala |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Lys | His | Ser | Ala | Asn | Met | Asn | Phe | Ser | Asn | His | Asn | Asn | Val | Arg | Ala |
|     |     |     | 420 |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Asn | Thr | Ala | Tyr | His | Leu | His | Gln | Arg | Leu | Gly | Pro | Ala | Arg | His | Gly |
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|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
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| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Thr | Ser | Pro | Ser | Lys | Arg | Pro | Asn | Ala | Arg | Val | Gly | Ser | Glu | His | Ser |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Leu | Leu | Asp | Pro | Pro | Gly | Lys | Ser | Lys | Val | Pro | Arg | Asp | Trp | Arg | Glu |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Gln | Val | Leu | Arg | His | Ile | Glu | Ala |     |     |     |     |     |     |     |     |
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Arg Thr Leu Asp Val Ala Val Lys Asn Ser Gly Gly Phe Leu Ser Lys  
305 310 315 320  
Asp Lys Gly Leu Leu Gly Lys Val Leu Val Ala Leu Ala Ser Glu Glu  
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Leu Ala Lys Gly Trp Thr Gln Trp Tyr Asp Leu Thr Glu Asp Gly Thr  
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<213> Homo sapiens

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Pro | Glu | Ala | Ser | Asp | Leu | Ser | Arg | Gly | Ile | Leu | Ala | Leu | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Val | Ala | Ala | Glu | Ala | Gly | Val | Ser | Lys | Tyr | Thr | Gly | Gly | Arg | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ser | Val | Gly | Pro | Ile | Leu | Ser | Ser | Ser | Ala | Ser | Asp | Ile | Phe | Cys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Asn | Glu | Asn | Gly | Pro | Asn | Phe | Leu | Phe | His | Asn | Arg | Gly | Asp | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Thr | Phe | Val | Asp | Ala | Ala | Ser | Ala | Gly | Val | Asp | Asp | Pro | His | Gln |     |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| His | Gly | Arg | Gly | Val | Ala | Leu | Ala | Asp | Phe | Asn | Arg | Asp | Gly | Lys | Val |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Asp | Ile | Val | Tyr | Gly | Asn | Trp | Asn | Gly | Pro | His | Arg | Leu | Tyr | Leu | Gln |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Met | Ser | Thr | His | Gly | Lys | Val | Arg | Phe | Arg | Asp | Ile | Ala | Ser | Pro | Lys |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Phe | Ser | Met | Pro | Ser | Pro | Val | Arg | Thr | Val | Ile | Thr | Ala | Asp | Phe | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asn | Asp | Gln | Glu | Leu | Glu | Ile | Phe | Phe | Asn | Asn | Ile | Ala | Tyr | Arg | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ser | Ser | Ala | Asn | Arg | Leu | Phe | Arg | Val | Ile | Arg | Arg | Glu | His | Gly | Asp |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Pro | Leu | Ile | Glu | Glu | Leu | Asn | Pro | Gly | Asp | Ala | Leu | Glu | Pro | Glu | Gly |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Gly | Thr | Gly | Gly | Val | Val | Thr | Asp | Phe | Asp | Gly | Asp | Gly | Met | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Asp | Leu | Ile | Leu | Ser | His | Gly | Glu | Ser | Met | Ala | Gln | Pro | Leu | Ser | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Phe | Arg | Gly | Asn | Gln | Gly | Phe | Asn | Asn | Asn | Trp | Leu | Arg | Val | Val | Pro |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Thr | Arg | Val | Gly | Ala | Phe | Ala | Arg | Gly | Ala | Lys | Val | Val | Leu | Tyr |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Thr | Lys | Lys | Ser | Gly | Ala | His | Leu | Arg | Ile | Ile | Asp | Gly | Gly | Ser | Gly |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Tyr | Leu | Cys | Glu | Met | Glu | Pro | Val | Ala | His | Phe | Gly | Leu | Gly | Lys | Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Glu | Ala | Ser | Ser | Val | Glu | Val | Thr | Trp | Pro | Asp | Gly | Lys | Met | Val | Ser |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Arg | Asn | Val | Ala | Ser | Gly | Glu | Met | Asn | Ser | Val | Leu | Glu | Ile | Leu | Tyr |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Pro | Arg | Asp | Glu | Asp | Thr | Leu | Gln | Asp | Pro | Ala | Pro | Leu | Glu | Thr | Pro |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Met | Asn | Ala | Ser | Ser | Ser | His | Ser | Cys | Ala | Leu | Glu | Thr | Ser | Pro | Tyr |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Val | Ser | Thr | Pro | Met | Glu | Ala | Thr | Gly | Ala | Gly | Pro | Thr | Arg | Ser | Ala |

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|   |                     |     |
|---|---------------------|-----|
| 355   | 360                 | 365 |
| Val Gly Ala Thr Ser Pro Thr Arg Met Ala Gln | Pro Ala Trp Gly Leu |     |
| 370   | 375                 | 380 |
| Ser Ala Ser His Arg Ala Pro Ala Pro Pro Pro | Pro Pro Leu Leu Leu |     |
| 385   | 390                 | 395 |
| Pro Leu Pro Leu Leu Leu Pro Leu Leu Glu Leu | Pro Leu Leu His Arg | 400 |
| 405   | 410                 | 415 |
| Ser Ser                                     |                     |     |

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<400> 11085

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| Met | Val | Tyr | Phe | Arg | Ala | Phe | Ser | Ser | Leu | Asn | Thr | Leu | Pro | Glu | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Arg | Pro | Tyr | Val | Pro | Pro | Phe | Cys | Ser | Ile | Leu | Thr | Lys | Leu | Gly |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Cys | Gly | Leu | Leu | Asp | Tyr | Arg | Glu | Gln | Ala | Gln | Gln | Ile | Glu | Leu | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Gly | Gly | Met | Ser | Ala | Ser | Pro | His | Val | Leu | Pro | Asp | Asp | Ser | His |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Met | Asp | Thr | Tyr | Glu | Gln | Gly | Val | Leu | Phe | Ser | Ser | Leu | Cys | Leu | Asp |
| 65  |     |     |     | 70  |     |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Asn | Leu | Pro | Asp | Met | Met | Gln | Leu | Trp | Ser | Glu | Ile | Phe | Asn | Asn |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Pro | Cys | Phe | Glu | Glu | Glu | Glu | His | Phe | Lys | Val | Leu | Val | Lys | Met | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Gln | Glu | Leu | Ala | Asn | Gly | Ile | Pro | Asp | Ser | Gly | His | Leu | Tyr | Ala |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Ile | Arg | Ala | Gly | Arg | Thr | Leu | Thr | Pro | Ala | Gly | Asp | Leu | Gln | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Phe | Ser | Gly | Met | Asp | Gln | Val | Arg | Leu | Met | Lys | Arg | Ile | Ala | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Met | Thr | Asp | Ile | Lys | Pro | Ile | Leu | Arg | Lys | Leu | Pro | Arg | Ile | Lys | Lys |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| His | Leu | Leu | Asn | Gly | Asp | Asn | Met | Arg | Cys | Ser | Val | Asn | Ala | Thr | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln | Gln | Met | Pro | Gln | Thr | Glu | Lys | Ala | Val | Glu | Asp | Phe | Leu | Arg | Ser |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ile | Gly | Arg | Ser | Lys | Lys | Glu | Arg | Arg | Pro | Val | Arg | Pro | His | Thr | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Lys | Pro | Val | Pro | Ser | Ser | Ser | Gly | Gly | Asp | Ala | His | Val | Pro | His |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Ser | Gln | Val | Ile | Arg | Lys | Leu | Val | Met | Glu | Pro | Thr | Phe | Lys | Pro |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Trp | Gln | Met | Lys | Thr | His | Phe | Leu | Met | Pro | Phe | Pro | Val | Asn | Tyr | Val |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gly | Glu | Cys | Ile | Arg | Thr | Val | Pro | Tyr | Thr | Asp | Pro | Asp | His | Ala | Ser |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Lys | Ile | Leu | Ala | Arg | Leu | Met | Thr | Ala | Lys | Phe | Leu | His | Thr | Glu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Arg | Glu | Lys | Gly | Gly | Ala | Tyr | Gly | Gly | Gly | Ala | Lys | Leu | Ser | His |

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Asp Ile Thr Lys Gln Trp Thr Phe Asn Tyr Ile Leu Arg Glu Leu Pro  
35 40 45  
Lys Val Pro Thr His Val Pro Val Cys Val Leu Gly Asn Tyr Arg Asp  
50 55 60  
Met Gly Glu His Arg Val Ile Leu Pro Asp Asp Val Arg Asp Phe Ile  
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Asp Asn Leu Asp Arg Pro Pro Gly Ser Ser Tyr Phe Arg Tyr Ala Glu  
85 90 95  
Ser Ser Met Lys Asn Ser Phe Gly Leu Lys Tyr Leu His Lys Phe Phe  
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Asn Ile Pro Ser Leu Gln Leu Gln Arg Glu Thr Leu Leu Arg Gln Leu  
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Glu Thr Asn Gln Leu Asp Met Asp Ala Thr Leu Glu Glu Leu Ser Val  
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Gln Gln Glu Thr Glu Asp Gln Asn Tyr Gly Ile Phe Leu Glu Met Met  
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Glu Ala Arg Ser Arg Gly His Ala Ser Pro Leu Ala Ala Asn Gly Gln  
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180 185 190  
Ser Thr Gly Ser Ser Ser Pro Gly Thr Pro Gln Pro Ala Pro Gln Leu  
195 200 205  
Pro Leu Asn Ala Ala Pro Pro Ser Ser Val Pro Pro Val Pro Pro Ser  
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 Pro Met Val Ala Gly Phe Gln Asp Asp Val Asp Leu Glu Asp Gln Pro  
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 Arg Gly Ser Pro Pro Leu Pro Ala Gly Pro Val Pro Ser Gln Asp Ile  
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 Thr Leu Ser Ser Glu Glu Glu Ala Glu Val Ala Ala Pro Thr Lys Gly  
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 Pro Ala Pro Ala Pro Gln Gln Cys Ser Glu Pro Glu Thr Lys Trp Ser  
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 Ser Ile Pro Ala Ser Lys Pro Arg Arg Gly Thr Ala Pro Thr Arg Thr  
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 Ala Ala Pro Pro Trp Pro Gly Gly Val Ser Val Arg Thr Gly Pro Glu  
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 Lys Arg Ser Ser Thr Arg Pro Pro Ala Glu Met Glu Pro Gly Lys Gly  
 420 425 430  
 Glu Gln Ala Ser Ser Ser Glu Ser Asp Pro Glu Gly Pro Ile Ala Ala  
 435 440 445  
 Gln Met Leu Ser Phe Val Met Asp Asp Pro Asp Phe Glu Ser Glu Gly  
 450 455 460  
 Ser Asp Thr Gln Arg Arg Ala Asp Asp Phe Pro Val Arg Asp Asp Pro  
 465 470 475 480  
 Ser Asp Val Thr Asp Glu Asp Glu Gly Pro Ala Glu Pro Pro Pro Pro  
 485 490 495  
 Pro Lys Leu Pro Leu Pro Ala Phe Arg Leu Lys Asn Asp Ser Asp Leu  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Pro | His | Val | Ala | Asn | Pro | Arg | Leu | Gln | Met | Ala | Ser | Pro | Glu | Glu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Cys | Gln | Gln | Val | Leu | Glu | Pro | Pro | Tyr | Asp | Glu | Met | Phe | Ala | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| His | Leu | Arg | Cys | Thr | Tyr | Ala | Val | Gly | Asn | His | Asp | Phe | Ile | Glu | Ala |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Tyr | Lys | Cys | Gln | Thr | Val | Ile | Val | Gln | Ser | Phe | Leu | Arg | Ala | Phe | Gln |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | His | Lys | Glu | Asn | Trp | Ala | Leu | Pro | Val | Met | Tyr | Ala | Val | Ala |     |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Leu | Asp | Leu | Arg | Val | Phe | Ala | Asn | Asn | Ala | Asp | Gln | Gln | Leu | Val | Lys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Gly | Lys | Ser | Lys | Val | Gly | Asp | Met | Leu | Glu | Lys | Ala | Ala | Glu | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Met | Ser | Cys | Phe | Arg | Val | Cys | Ala | Ser | Asp | Thr | Arg | Ala | Gly | Ile |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Asp | Ser | Lys | Lys | Trp | Gly | Met | Leu | Phe | Leu | Val | Asn | Gln | Leu | Phe |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Lys | Ile | Tyr | Phe | Lys | Ile | Asn | Lys | Leu | His | Leu | Cys | Lys | Pro | Leu | Ile |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Arg | Ala | Ile | Asp | Ser | Ser | Asn | Leu | Lys | Asp | Asp | Tyr | Ser | Thr | Ala | Gln |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Arg | Val | Thr | Tyr | Lys | Tyr | Tyr | Val | Gly | Arg | Lys | Ala | Met | Phe | Asp | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asp | Phe | Lys | Gln | Ala | Glu | Glu | Tyr | Leu | Ser | Phe | Ala | Phe | Glu | His | Cys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| His | Arg | Ser | Ser | Gln | Lys | Asn | Lys | Arg | Met | Ile | Leu | Ile | Tyr | Leu | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Pro | Val | Lys | Met | Leu | Leu | Gly | His | Met | Pro | Thr | Val | Glu | Leu | Leu | Lys |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Lys | Tyr | His | Leu | Met | Gln | Phe | Ala | Glu | Val | Thr | Arg | Ala | Val | Ser | Glu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gly | Asn | Leu | Leu | Leu | Leu | His | Glu | Ala | Leu | Ala | Lys | His | Glu | Ala | Phe |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Phe | Ile | Arg | Cys | Gly | Ile | Phe | Leu | Ile | Leu | Glu | Lys | Leu | Lys | Ile | Ile |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Tyr | Arg | Asn | Leu | Phe | Lys | Lys | Val | Tyr | Leu | Leu | Leu | Lys | Thr | His |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Gln | Leu | Ser | Leu | Asp | Ala | Phe | Leu | Val | Ala | Leu | Lys | Phe | Met | Gln | Val |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Glu | Asp | Val | Asp | Ile | Asp | Glu | Val | Gln | Cys | Ile | Leu | Ala | Asn | Leu | Ile |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Tyr | Met | Gly | His | Val | Lys | Gly | Tyr | Ile | Ser | His | Gln | His | Gln | Lys | Leu |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Val | Val | Ser | Lys | Gln | Asn | Pro | Phe | Pro | Pro | Leu | Ser | Thr | Val | Cys |     |
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| Met | Thr | Leu | Ile | Glu | Pro | Gly | Gly | Asp | Asp | His | Lys | Leu | Thr | Pro | Ala | 1   | 5   | 10  | 15  |
| Phe | Leu | Leu | Cys | Leu | Cys | Ile | Gln | His | Ser | Ala | Thr | His | Phe | Gln | Pro | 20  | 25  | 30  |     |
| Gly | Thr | Phe | Gly | Gln | Leu | Leu | Leu | Lys | Ile | Ala | Arg | Leu | Ile | Arg | Glu | 35  | 40  | 45  |     |
| Thr | Val | Trp | Glu | Lys | Thr | Lys | Glu | Leu | Ala | Glu | Lys | Gln | Ala | Gln | Leu | 50  | 55  | 60  |     |
| Gln | Glu | Pro | Ile | Ser | Leu | Ala | Ser | Cys | Ala | Met | Ala | Asp | Leu | Val | Pro | 65  | 70  | 75  | 80  |
| Asp | Leu | Gln | Pro | Ile | Leu | Phe | Trp | Met | Ser | Asn | Ser | Ile | Glu | Leu | Leu | 85  | 90  | 95  |     |
| Tyr | Phe | Ile | Gln | Gln | Lys | Cys | Pro | Leu | Tyr | Met | Gln | Ser | Met | Glu | Glu | 100 | 105 | 110 |     |
| Gln | Leu | Asp | Ile | Thr | Gly | Ser | Lys | Glu | Ser | Leu | Phe | Ser | Cys | Thr | Leu | 115 | 120 | 125 |     |
| Thr | Ala | Ser | Glu | Glu | Ala | Met | Ala | Val | Leu | Glu | Glu | Val | Val | Leu | Tyr | 130 | 135 | 140 |     |
| Ala | Phe | Gln | Gln | Cys | Val | Tyr | Tyr | Val | Ser | Lys | Ser | Leu | Tyr | Ile | Cys | 145 | 150 | 155 | 160 |
| Leu | Pro | Ala | Leu | Leu | Glu | Cys | Pro | Pro | Phe | Gln | Thr | Glu | Arg | Arg | Glu | 165 | 170 | 175 |     |
| Ser | Trp | Ser | Ser | Ala | Pro | Glu | Leu | Pro | Glu | Glu | Leu | Arg | Arg | Val | Val | 180 | 185 | 190 |     |
| Ser | Val | Tyr | Gln | Ala | Ala | Leu | Asp | Leu | Leu | Arg | Gln | Leu | Gln | Val | His | 195 | 200 | 205 |     |
| Pro | Glu | Val | Ala | Ser | Gln | Met | Leu | Ala | Tyr | Leu | Phe | Phe | Phe | Ser | Gly | 210 | 215 | 220 |     |
| Thr | Leu | Leu | Leu | Asn | Gln | Leu | Leu | Asp | Arg | Gly | Pro | Ser | Leu | Ser | Cys | 225 | 230 | 235 | 240 |
| Phe | His | Trp | Pro | Arg | Gly | Val | Gln | Ala | Cys | Ala | Arg | Leu | Gln | Gln | Leu | 245 | 250 | 255 |     |
| Leu | Glu | Trp | Met | Arg | Ser | Ala | Gly | Phe | Gly | Ala | Ala | Gly | Glu | His | Phe |     |     |     |     |

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| Phe | Gln | Lys | Leu | Ser | Cys | Thr | Leu | Asn | Leu | Leu | Ala | Thr | Pro | Arg | Ala |  |
|     |     |     |     | 275 |     |     |     | 280 |     |     |     | 285 |     |     |     |  |
| Gln | Leu | Ile | Gln | Met | Ser | Trp | Thr | Ala | Leu | Arg | Ala | Ala | Phe | Pro | Ala |  |
|     |     |     |     | 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |  |
| Leu | Ser | Pro | Ala | Gln | Leu | His | Arg | Leu | Leu | Thr | His | Tyr | Gln | Leu | Ala |  |
| 305 |     |     |     |     | 310 |     |     |     | 315 |     |     |     | 320 |     |     |  |
| Ser | Ala | Met | Gly | Pro | Met | Ser | Thr | Trp | Glu | Pro | Gly | Ala | Gln | Asp | Ser |  |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     | 335 |     |     |     |  |
| Pro | Glu | Ala | Phe | Arg | Ser | Glu | Asp | Val | Leu | Glu | Ser | Tyr | Glu | Asn | Pro |  |
|     |     |     |     | 340 |     |     |     | 345 |     |     |     | 350 |     |     |     |  |
| Pro | Pro | Ile | Val | Leu | Pro | Ser | Asp | Gly | Phe | Gln | Val | Asp | Leu | Glu | Ala |  |
|     |     |     |     | 355 |     |     |     | 360 |     |     |     | 365 |     |     |     |  |
| Asn | Cys | Leu | Asp | Asp | Ser | Ile | Tyr | Gln | His | Leu | Leu | Tyr | Val | Arg | His |  |
|     |     |     |     | 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |  |
| Phe | Leu | Trp | Gly | Leu | Arg | Ser | Arg | Ala | Ser | Pro | Gly | Ser | Pro | Gly | Arg |  |
| 385 |     |     |     |     | 390 |     |     |     | 395 |     |     |     | 400 |     |     |  |
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|     |     |     |     | 405 |     |     |     | 410 |     |     |     | 415 |     |     |     |  |
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|     |     |     |     | 420 |     |     |     | 425 |     |     |     | 430 |     |     |     |  |
| Arg | Asp | Pro | Gly | Pro | Ala | Ala | Arg | Glu | Val | Ala | Pro | Glu | Arg | Thr | Leu |  |
|     |     |     |     | 435 |     |     |     | 440 |     |     |     | 445 |     |     |     |  |
| Pro | Leu | Arg | Gly | Ala | Pro | Trp | Ala | Gln | Ala | Pro | Pro | Gly | Arg | Gln | Pro |  |
|     |     |     |     | 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |  |
| Gly | Arg | Gly | Gly | Ser | Gln | Ala | Gly | Pro | Pro | His | Thr | Asp | Ser | Ser | Cys |  |
| 465 |     |     |     |     | 470 |     |     |     | 475 |     |     |     | 480 |     |     |  |
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|     |     |     |     | 485 |     |     |     | 490 |     |     |     | 495 |     |     |     |  |
| Asp | Trp | Pro | Glu | Ser | Gly | Gly | Pro | Cys | Gly | Lys | Ala | Leu | Pro | Glu | Arg |  |
|     |     |     |     | 500 |     |     |     | 505 |     |     |     | 510 |     |     |     |  |
| Gln | Arg | Asn | Gly | Leu | Ser | Gly | Leu | Arg | Gly | Ala | Ala | Pro | Glu | Gly | Asp |  |
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Ala Asp Trp Asn Asn Cys Tyr Tyr Thr Phe Asp Gly Lys Tyr Glu Ala
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| Glu | Arg | Ala | Phe | Lys | Arg | Gln | Phe | Val | Glu | His | Ala | Ser | Glu | Lys | Leu |
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| Gln | Leu | Val | Ile | Ser | Tyr | Thr | Gly | Ser | Asn | Cys | Ser | His | Gln | Val | Gln |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Thr | Arg | Glu | Asn | Leu | Glu | Gln | Glu | Ile | Ala | Ala | Met | Asn | Lys | Lys | Ile |
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| Arg | Thr | Arg | Ser | Glu | Pro | Leu | Pro | Pro | Ser | Ala | Thr | Ala | Pro | Pro | Pro |
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| Pro | Gly | Pro | Met | Gln | Pro | Arg | Leu | Glu | Gln | Leu | Lys | Thr | His | Val | Gln |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Ile | Lys | Arg | Ser | Ala | Lys | Pro | Ser | Glu | Lys | Pro | Arg | Leu | Arg | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ile | Pro | Ser | Ala | Glu | Asp | Leu | Glu | Thr | Asp | Gly | Gly | Gly | Pro | Gly | Gln |
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| Val | Val | Asp | Asp | Gly | Leu | Glu | His | Arg | Glu | Leu | Gly | His | Gly | Gln | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Ala | Arg | Gly | Pro | Ala | Pro | Leu | Gln | Gln | His | Pro | Gln | Val | Leu | Leu |
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| Pro | Ala | Ser | Gln | Ala | Arg | Val | Leu | Ser | Ser | Ser | Glu | Thr | Pro | Ala | Arg |
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| His | Gln | Cys | Ser | Cys | Gly | Asp | Asn | Ser | Arg | His | Pro | Glu | His | Ala | Gly |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
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| Ser | Val | His | Ser | Glu | Arg | His | Val | Leu | Leu | Tyr | Gly | Thr | Asn | Pro | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     | 255 |     |     |
| Ser | Arg | Leu | Lys | Leu | Asp | Asn | Gly | Lys | Leu | Ala | Gly | Leu | Leu | Ala | Gln |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Arg | Met | Phe | Val | Met | Leu | Pro | Cys | Gly | Gly | Val | Gly | Val | Asp | Thr | Asp |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
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|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     | 335 |     |     |
| Thr | Ala | Met | Gly | Phe | Cys | Phe | Phe | Asn | Ser | Val | Ala | Ile | Ala | Cys | Arg |
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| Gln | Leu | Gln | Gln | Gln | Ser | Lys | Ala | Ser | Lys | Ile | Leu | Ile | Val | Asp | Trp |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Asp | Val | His | His | Gly | Asn | Gly | Thr | Gln | Gln | Thr | Phe | Tyr | Gln | Asp | Pro |
|     | 370 |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Ser | Val | Leu | Tyr | Ile | Ser | Leu | His | Arg | His | Asp | Asp | Gly | Asn | Phe | Phe |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     | 400 |     |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     | 415 |     |     |
| Phe | Asn | Val | Asn | Val | Ala | Trp | Ala | Gly | Gly | Leu | Asp | Pro | Pro | Met | Gly |
|     |     | 420 |     |     |     |     |     | 425 |     |     |     | 430 |     |     |     |
| Asp | Pro | Glu | Tyr | Leu | Ala | Ala | Phe | Arg | Ile | Val | Val | Met | Pro | Ile | Ala |
|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Arg | Glu | Phe | Ser | Pro | Asp | Leu | Val | Leu | Val | Ser | Ala | Gly | Phe | Asp | Ala |
|     | 450 |     |     |     | 455 |     |     |     |     |     | 460 |     |     |     |     |
| Ala | Glu | Gly | His | Pro | Ala | Pro | Leu | Gly | Gly | Tyr | His | Val | Ser | Ala | Lys |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | 480 |     |
| Cys | Phe | Gly | Tyr | Met | Thr | Gln | Gln | Leu | Met | Asn | Leu | Ala | Gly | Gly | Ala |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     | 495 |     |     |
| Val | Val | Leu | Ala | Leu | Glu | Gly | Gly | His | Asp | Leu | Thr | Ala | Ile | Cys | Asp |
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| Ala | Ser | Glu | Ala | Cys | Val | Ala | Ala | Leu | Leu | Gly | Asn | Arg | Val | Asp | Pro |
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| Leu | Ser | Glu | Glu | Gly | Trp | Lys | Gln | Lys | Pro | Asn | Leu | Asn | Ala | Ile | Arg |

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| Ala Asp Lys Glu Glu Val Glu Ala Val Thr Ala Leu Ala Ser Leu Ser |                         |                     |     |     |
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| Val Gly Ile Leu Ala Glu Asp Arg Pro Ser Glu Gln Leu Val Glu Glu |                         |                     |     |     |
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| Met | Tyr | His | Ala | Leu | Glu | Lys | Ala | Arg | Val | Arg | Ala | Gly | Lys | Thr | Phe |
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| Pro | Ser | Ser | Pro | Gly | Asp | Ser | Leu | Glu | Asp | Gln | Leu | Lys | Pro | Met | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Trp | Ala | His | Gly | Gly | Phe | Lys | Pro | Thr | Gly | Ile | Glu | Gly | Leu | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Asn | Asn | Thr | Gln | Pro | Val | Val | Asn | Lys | Ser | Lys | Val | Arg | Arg | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Ser | Arg | Lys | Leu | Glu | Ser | Arg | Lys | Tyr | Glu | Asn | Lys | Thr | Arg | Arg |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Arg | Thr | Ala | Asp | Asp | Ser | Ala | Thr | Ser | Asp | Tyr | Cys | Pro | Ala | Pro | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Arg | Leu | Lys | Thr | Asn | Cys | Tyr | Asn | Asn | Gly | Lys | Asp | Arg | Gly | Asp | Glu |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Asp | Gln | Ser | Arg | Glu | Gln | Met | Ala | Ser | Asp | Val | Ala | Asn | Asn | Lys | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
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| Phe | His | Pro | Leu | Phe | Glu | Gly | Gly | Leu | Cys | Gln | Thr | Cys | Arg | Asp | Arg |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Phe | Leu | Glu | Leu | Phe | Tyr | Met | Tyr | Asp | Asp | Asp | Gly | Tyr | Gln | Ser | Tyr |
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| Cys | Thr | Val | Cys | Cys | Glu | Gly | Arg | Glu | Leu | Leu | Leu | Cys | Ser | Asn | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Ser | Cys | Cys | Arg | Cys | Phe | Cys | Val | Glu | Cys | Leu | Glu | Val | Leu | Val | Gly |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Thr | Gly | Thr | Ala | Ala | Glu | Ala | Lys | Leu | Gln | Glu | Pro | Trp | Ser | Cys | Tyr |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Met | Cys | Leu | Pro | Gln | Arg | Cys | His | Gly | Val | Leu | Arg | Arg | Arg | Lys | Asp |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Trp | Asn | Val | Arg | Leu | Gln | Ala | Phe | Phe | Thr | Ser | Gly | Thr | Gly | Leu | Glu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Tyr | Glu | Ala | Pro | Lys | Leu | Tyr | Pro | Ala | Ile | Pro | Ala | Ala | Arg | Arg | Arg |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Pro | Ile | Arg | Val | Leu | Ser | Leu | Phe | Asp | Gly | Ile | Ala | Thr | Gly | Tyr | Leu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Val | Leu | Lys | Glu | Leu | Gly | Ile | Lys | Val | Gly | Lys | Tyr | Val | Ala | Ser | Glu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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| Ile | Lys | Tyr | Val | Asn | Asp | Val | Arg | Asn | Ile | Thr | Lys | Lys | Asn | Ile | Glu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Glu | Trp | Gly | Pro | Phe | Asp | Leu | Val | Ile | Gly | Gly | Ser | Pro | Cys | Asn | Asp |
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| Leu | Ser | Asn | Val | Asn | Pro | Ala | Arg | Lys | Gly | Leu | Tyr | Glu | Gly | Thr | Gly |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Arg | Leu | Phe | Phe | Glu | Phe | Tyr | His | Leu | Leu | Asn | Tyr | Ser | Arg | Pro | Lys |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Glu | Gly | Asp | Asp | Arg | Pro | Phe | Phe | Trp | Met | Phe | Glu | Asn | Val | Val | Ala |
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| Met | Lys | Val | Gly | Asp | Lys | Arg | Asp | Ile | Ser | Arg | Phe | Leu | Glu | Cys | Asn |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Pro | Val | Met | Ile | Asp | Ala | Ile | Lys | Val | Ser | Ala | Ala | His | Arg | Ala | Arg |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Tyr | Phe | Trp | Gly | Asn | Leu | Pro | Gly | Met | Asn | Arg | Ile | Phe | Gly | Phe | Pro |
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| Val | His | Tyr | Thr | Asp | Val | Ser | Asn | Met | Gly | Arg | Gly | Ala | Arg | Gln | Lys |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Leu | Leu | Gly | Arg | Ser | Trp | Ser | Val | Pro | Val | Ile | Arg | His | Leu | Phe | Ala |
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| Pro | Leu | Lys | Asp | Tyr | Phe | Ala | Cys | Glu |     |     |     |     |     |     |     |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
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| Ser | Val | Leu | Lys | Ser | Thr | Arg | Pro | Tyr | Leu | Gln | Arg | Lys | Asp | Val | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Ala | Leu | Ile | Gln | Trp | Gln | Glu | Arg | Ile | Glu | Phe | Ala | His | Lys | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Leu | Thr | Leu | Leu | Asn | Ser | Tyr | Ser | Pro | Pro | Glu | Leu | Arg | Asn | Ala | Cys |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ile | Asp | Val | Leu | Lys | Glu | Leu | Val | Leu | Leu | Ser | Pro | His | Asp | Phe | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Thr | Leu | Val | Pro | Phe | Leu | Gln | His | Asn | His | Cys | Thr | Tyr | His | His |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Ser | Asn | Ile | Pro | Met | Ser | Leu | Gly | Pro | Tyr | Phe | Pro | Cys | Arg | Glu | Asn |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ile | Lys | Leu | Ile | Gly | Gly | Lys | Ser | Asn | Ile | Arg | Pro | Pro | Arg | Pro | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Asn | Met | Cys | Leu | Leu | Pro | Thr | Met | Val | Glu | Thr | Ser | Lys | Gly | Lys |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Asp | Asp | Val | Tyr | Asp | Arg | Met | Leu | Leu | Asp | Tyr | Phe | Phe | Ser | Tyr | His |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gln | Phe | Ile | His | Leu | Leu | Cys | Arg | Val | Ala | Ile | Asn | Cys | Glu | Lys | Phe |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Thr | Glu | Thr | Leu | Val | Lys | Leu | Ser | Val | Leu | Val | Ala | Tyr | Glu | Gly | Leu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Leu | His | Leu | Ala | Leu | Phe | Pro | Lys | Leu | Trp | Thr | Glu | Leu | Cys | Gln |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Thr | Gln | Ser | Ala | Met | Ser | Lys | Asn | Cys | Ile | Lys | Leu | Leu | Cys | Glu | Asp |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Pro | Val | Phe | Ala | Glu | Tyr | Ile | Lys | Cys | Ile | Leu | Met | Asp | Glu | Arg | Thr |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Phe | Leu | Asn | Asn | Asn | Ile | Val | Tyr | Thr | Phe | Met | Thr | His | Phe | Leu | Leu |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Lys | Val | Gln | Ser | Gln | Val | Phe | Ser | Glu | Ala | Asn | Cys | Ala | Asn | Leu | Ile |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
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| Asp | Phe | Ser | Asn | Arg | Val | Glu | Ile | Ser | Lys | Ala | Ser | Ala | Ser | Leu | Asn |
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| Gly | Asp | Leu | Arg | Ala | Leu | Ala | Leu | Leu | Leu | Ser | Val | His | Thr | Pro | Lys |
|     |     |     |     | 325 |     |     |     |     |     | 330 |     |     |     | 335 |     |
| Gln | Leu | Asn | Pro | Ala | Leu | Ile | Pro | Thr | Leu | Gln | Glu | Leu | Leu | Ser | Lys |
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| Cys | Arg | Thr | Cys | Leu | Gln | Gln | Arg | Asn | Ser | Leu | Gln | Glu | Gln | Glu | Ala |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Lys | Glu | Arg | Lys | Thr | Lys | Asp | Asp | Glu | Gly | Ala | Thr | Pro | Ile | Lys | Arg |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Arg | Arg | Val | Ser | Ser | Asp | Glu | Glu | His | Thr | Val | Asp | Ser | Cys | Ile | Ser |
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| Asp | Met | Glu | Thr | Glu | Thr | Arg | Glu | Val | Leu | Thr | Pro | Thr | Ser | Thr | Ser |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
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|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Asp | Leu | Pro | Ser | Pro | Glu | Asn | Ser | Ser | Val | Lys | Glu | Tyr | Arg | Met | Glu |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Val | Pro | Ser | Ser | Phe | Ser | Glu | Asp | Met | Ser | Asn | Ile | Arg | Ser | Gln | His |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
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|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Glu | Phe | Pro | Ser | Thr | Ser | Ile | Ser | Ala | Val | Leu | Ser | Asp | Leu | Ala | Asp |
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| Met | Arg | Leu | Ser | Gln | Lys | Trp | Gln | Val | Ile | Asn | Gln | Arg | Ser | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Glu | Glu | Gln | Leu | Val | Arg | Met | Leu | Thr | Arg | Glu | Val | Met | Asp | Leu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Thr | Val | Cys | Cys | Val | Ser | Lys | Lys | Gly | Ala | Asp | His | Ser | Ser | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Pro | Ala | Asp | Gly | Asp | Glu | Glu | Met | Met | Ala | Thr | Glu | Val | Thr |     |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
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|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
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|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
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| Trp | Pro | Leu | Leu | Lys | Gln | Val | Leu | Ser | Gly | Thr | Leu | Leu | Ala | Asp | Ala |
|     |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln | Ile | Pro | Glu | Ile | Gln | Lys | Asp | Ser | Leu | Asp | Gln | Phe | Asp | Cys | Lys |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Leu | Leu | Asn | Pro | Ser | Leu | Gln | Lys | Val | Ala | Asp | Lys | Arg | Arg | Lys | Asp |
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| Gln | Phe | Glu | Arg | Leu | Ile | Ala | Gly | Cys | Ile | Gly | Lys | Pro | Leu | Gly | Glu |
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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Lys | Thr | Lys | Pro | Met | Leu | Glu | Thr | Glu | Val | Leu | Asp | Asn | Asp | Gly | Gly |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gly | Leu | Ala | Thr | Ile | Phe | Glu | Pro |     |     |     |     |     |     |     |     |
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| Met | Ala | Val | Thr | Glu | Ala | Ser | Leu | Leu | Arg | Gln | Cys | Pro | Leu | Leu | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro | Gln | Asn | Arg | Ser | Lys | Thr | Val | Tyr | Glu | Gly | Phe | Ile | Ser | Ala | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Arg | Asp | Phe | His | Leu | Arg | Ile | Val | Leu | Pro | Glu | Asp | Leu | Gln | Leu |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Lys | Asn | Ala | Arg | Leu | Leu | Cys | Ser | Trp | Gln | Leu | Arg | Thr | Ile | Leu | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Tyr | His | Arg | Ile | Val | Gln | Gln | Arg | Met | Gln | His | Pro | Pro | Asp | Leu |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Met | Ser | Phe | Met | Met | Glu | Leu | Lys | Met | Leu | Leu | Glu | Val | Ala | Leu | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Asn | Arg | Gln | Glu | Leu | Tyr | Ala | Leu | Pro | Pro | Pro | Pro | Gln | Phe | Tyr | Ser |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Leu | Ile | Glu | Glu | Ile | Gly | Thr | Leu | Gly | Trp | Asp | Lys | Leu | Val | Tyr |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ala | Asp | Thr | Cys | Phe | Ser | Thr | Ile | Lys | Leu | Lys | Ala | Glu | Asp | Ala | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Arg | Glu | His | Leu | Ile | Thr | Leu | Lys | Leu | Lys | Ala | Lys | Tyr | Pro | Ala |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |
| Glu | Ser | Pro | Asp | Tyr | Phe | Val | Asp | Phe | Pro | Val | Pro | Phe | Cys | Ala | Ser |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Trp | Thr | Pro | Gln | Ser | Ser | Leu | Ile | Ser | Ile | Tyr | Ser | Gln | Phe | Leu | Ala |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |

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| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ile | Asp | Val | Arg | Arg | Pro | Leu | Tyr | Lys | Asn | Val | Val | Leu | Ser | Gly | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |     |     |
| Ser | Thr | Met | Phe | Arg | Asp | Phe | Gly | Arg | Arg | Leu | Gln | Arg | Asp | Leu | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     | 45  |     |     |     |     |
| Arg | Val | Val | Asp | Ala | Arg | Leu | Arg | Leu | Ser | Glu | Glu | Leu | Ser | Gly | Gly |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Ile | Lys | Pro | Lys | Pro | Val | Glu | Val | Gln | Val | Val | Thr | His | His | Met |
|     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Gln | Arg | Tyr | Ala | Val | Trp | Phe | Gly | Gly | Ser | Met | Leu | Ala | Ser | Thr | Pro |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Phe | Phe | Gln | Val | Cys | His | Thr | Lys | Lys | Asp | Tyr | Glu | Glu | Tyr | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ser | Ile | Cys | Arg | His | Asn | Pro | Val | Phe | Gly | Val | Met | Ser |     |     |
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<210> 11117  
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<212> PRT  
<213> Homo sapiens

<400> 11117

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          20             25             30
Lys Asp Asp Asn Leu Lys Thr Ile Glu Glu Ile Ile Ser Phe Gln His
          35             40             45
Leu His Arg Leu Thr Cys Leu Lys Leu Trp Tyr Asn His Ile Ala Tyr
          50             55             60
Ile Pro Ile Gln Ile Gly Asn Leu Thr Asn Leu Glu Arg Leu Tyr Leu
          65             70             75             80

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000220.69462960



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Arg | Asn | Lys | Ile | Glu | Lys | Ile | Pro | Thr | Gln | Leu | Phe | Tyr | Cys | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Leu | Arg | Tyr | Leu | Asp | Leu | Ser | His | Asn | Asn | Leu | Thr | Phe | Leu | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Asp | Ile | Gly | Leu | Leu | Gln | Asn | Leu | Gln | Asn | Leu | Ala | Ile | Thr | Ala |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asn | Arg | Ile | Glu | Thr | Leu | Pro | Pro | Glu | Leu | Phe | Gln | Cys | Arg | Lys | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Arg | Ala | Leu | His | Leu | Gly | Asn | Asn | Val | Leu | Gln | Ser | Leu | Pro | Ser | Arg |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Gly | Glu | Leu | Thr | Asn | Leu | Thr | Gln | Ile | Glu | Leu | Arg | Gly | Asn | Arg |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Leu | Glu | Cys | Leu | Pro | Val | Glu | Leu | Gly | Glu | Cys | Pro | Leu | Leu | Lys | Arg |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Gly | Leu | Val | Val | Glu | Glu | Asp | Leu | Phe | Asn | Thr | Leu | Pro | Pro | Glu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Val | Lys | Glu | Arg | Leu | Trp | Arg | Ala | Asp | Lys | Glu | Gln | Ala |     |     |     |
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 ggacttacag aaaatgttga ccgtggcttg gggggcctag agggaaacaca ccaggccctt 240  
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 cagctagaaa tatcgaatgc atccaccaca gaggtggcaa ttctgcaagt agatgatgac 540  
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003270 59452960

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<210> 11119  
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 <212> PRT  
 <213> Homo sapiens

<400> 11119

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Met | Pro | Glu | Glu | Val | Lys | Glu | Ser | Ser | Gln | Leu | Asp | Lys | Gln | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Leu | Gly | Leu | Glu | Leu | Lys | Ile | Asn | Ser | Ala | Gly | Leu | Gly | Pro | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Cys | Leu | Pro | Asp | Leu | Val | Asp | Phe | Val | Thr | Arg | Thr | Ser | Gly | Val |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Lys | Asp | Lys | Leu | Cys | Ser | Pro | Leu | Ser | Glu | Pro | Gly | Asp | Pro | Ser |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Cys | Ser | Ser | Leu | Glu | Leu | Gly | Pro | Leu | Gln | Leu | Glu | Ile | Ser | Asn |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ala | Ser | Thr | Thr | Glu | Val | Ala | Ile | Leu | Gln | Val | Asp | Asp | Asp | Ser | Gly |
|     |     |     |     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Pro | Leu | Asn | Leu | Val | Lys | Ala | Pro | Val | Ser | Arg | Ser | Pro | Pro | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Gln | Val | Ile | Glu | Asp | Asn | Met | Val | Pro | Gln | Gly | Met | Pro | Glu | Gln |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Thr | Thr | Val | Gly | Ala | Ile | Gln | Asp | His | Thr | Glu | Ser | Ser | Val | His |
|     |     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |
| Asn |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 145 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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<212> PRT

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<400> 11121

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      20             25             30
Thr Asn Ser Gly Lys Phe Leu Ile Leu Asp Arg Met Leu Pro Glu Leu
      35             40             45
Lys Lys Arg Gly His Lys Val Leu Leu Phe Ser Gln Met Thr Ser Met
      50             55             60
Leu Asp Ile Leu Met Asp Tyr Cys His Leu Arg Asp Phe Asn Phe Ser
      65             70             75             80
Arg Leu Asp Gly Ser Met Ser Tyr Ser Glu Arg Glu Lys Asn Met His

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00629469.072800



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<212> DNA  
<213> Homo sapiens

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<210> 11124  
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<213> Homo sapiens

000220 69462960

<400> 11124

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| Met | Asp | Ile | Leu | Arg | Val | Leu | Ser | Thr | Pro | Asp | Leu | Glu | Val | Arg | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Lys | Thr | Leu | Gln | Leu | Ala | Leu | Asp | Leu | Val | Ser | Ser | Arg | Asn | Val | Glu |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Leu | Val | Ile | Val | Leu | Lys | Lys | Glu | Val | Ile | Lys | Thr | Asn | Asn | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Glu | His | Glu | Asp | Thr | Asp | Lys | Tyr | Arg | Gln | Leu | Leu | Val | Arg | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | His | Ser | Cys | Ser | Val | Arg | Phe | Pro | Asp | Met | Ala | Ala | Asn | Val | Ile |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Pro | Val | Leu | Met | Glu | Phe | Leu | Ser | Asp | Asn | Asn | Glu | Ala | Ala | Ala | Ala |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Val | Leu | Glu | Phe | Val | Arg | Glu | Ala | Ile | Gln | Arg | Phe | Asp | Asn | Leu |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Arg | Met | Leu | Ile | Val | Glu | Lys | Met | Leu | Glu | Val | Phe | His | Ala | Ile | Lys |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Val | Lys | Ile | Tyr | Arg | Gly | Ala | Leu | Trp | Ile | Leu | Gly | Glu | Tyr | Cys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Thr | Lys | Glu | Asp | Ile | Gln | Ser | Val | Met | Thr | Glu | Ile | Arg | Arg | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Leu | Gly | Glu | Ile | Pro | Ile | Val | Glu | Ser | Glu | Ile | Lys | Lys | Glu | Ala | Gly |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Glu | Leu | Lys | Pro | Glu | Glu | Glu | Ile | Pro | Val | Gly | Pro | Val | Gln | Lys | Leu |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Thr | Glu | Met | Gly | Thr | Tyr | Ala | Thr | Gln | Ser | Ala | Leu | Ser | Ser | Ser |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Arg | Pro | Thr | Lys | Lys | Glu | Glu | Asp | Arg | Pro | Pro | Leu | Arg | Gly | Phe | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Asp | Gly | Asp | Phe | Phe | Val | Ala | Ala | Ser | Leu | Ala | Thr | Thr | Leu | Thr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Ile | Ala | Leu | Arg | Tyr | Val | Ala | Leu | Val | Gln | Glu | Lys | Lys | Lys | Gln |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asn | Ser | Phe | Val | Ala | Glu | Ala | Met | Leu | Leu | Met | Ala | Thr | Ile | Leu | His |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Leu | Gly | Lys | Ser | Ser | Leu | Pro | Lys | Lys | Pro | Ile | Thr | Asp | Asp | Asp | Val |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Asp | Arg | Ile | Ser | Leu | Cys | Leu | Lys | Val | Leu | Ser | Glu | Cys | Ser | Pro | Leu |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Met | Asn | Asp | Ile | Phe | Asn | Lys | Glu | Cys | Arg | Gln | Ser | Leu | Ser | His | Met |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Ser | Ala | Lys | Leu | Glu | Glu | Glu | Lys | Leu | Ser | Gln | Lys | Lys | Glu | Ser |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Glu | Lys | Arg | Asn | Val | Thr | Val | Gln | Pro | Asp | Asp | Pro | Ile | Ser | Phe | Met |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Gln | Leu | Thr | Ala | Lys | Asn | Glu | Met | Asn | Cys | Lys | Glu | Asp | Gln | Phe | Gln |
|     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Leu | Ser | Leu | Leu | Ala | Ala | Met | Gly | Asn | Thr | Gln | Arg | Lys | Glu | Ala | Ala |

0002270.5945960

|   |     |     |
|---|-----|-----|
| 370   | 375 | 380 |
| Asp Pro Leu Ala Ser Lys Leu Asn Lys Val Thr Gln Leu Thr Gly Phe |     |     |
| 385   | 390 | 395 |
| Ser Asp Pro Val Tyr Ala Glu Ala Tyr Val His Val Asn Gln Tyr Asp |     | 400 |
|   | 405 | 410 |
| Ile Val Leu Asp Val Leu Val Val Asn Gln Thr Ser Asp Thr Leu Gln |     | 415 |
|   | 420 | 425 |
| Asn Cys Thr Leu Glu Leu Ala Thr Leu Gly Asp Leu Lys Leu Val Glu |     | 430 |
|   | 435 | 440 |
| Lys Pro Ser Pro Leu Thr Leu Ala Pro His Asp Phe Ala Asn Ile Lys |     | 445 |
|   | 450 | 455 |
| Ala Asn Val Lys Val Ala Ser Thr                                 |     | 460 |
| 465   | 470 |     |

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (584).. (988)

<400> 11125

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| ccccacggtg  | ctgttttcga | cttcagaaag  | gatctagtct  | cagcacagga | gcgcctcagg | 240 |
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| cctgaggagg  | cggaagaacc | cccctgacgc  | gactggcgtg  | tgcttctgcc | cgccaccgcc | 360 |
| cctcccgcctc | tcaccggggc | cgtcccctggc | caactgcccct | gocgcggagg | cagcggcggc | 420 |
| agcggctctc  | ctttccacag | ccggcgctcc  | gcgaccgcct  | tggctcctga | gcccgtcggg | 480 |
| taggctctcc  | tcgagttccc | gctcttcacc  | ccttcccctca | ccctcttctt | tcgtcaccgc | 540 |
| tccccgaccc  | cacccgagcc | cggcgccctca | gctgcccccg  | gccatggcgt | gcggagccac | 600 |
| tctgaaaagg  | actctggatt | tcgaccgcct  | gttgagcccg  | gcgtccccga | agcgcaggcg | 660 |
| atgtgcgcca  | ttgtcggcgc | ccacctcggc  | cgtgcctcc   | cgttgctcgg | cggccgcggc | 720 |
| caccgcgcgc  | tccttctccg | ctgcggcgcg  | ctcgccgcag  | aagtatctcc | gaatggagcc | 780 |
| atcccccttc  | ggcgacgtct | cctccgcct   | caccacagaa  | caaattctgt | acaacataaa | 840 |
| acaagagtat  | aaacgaatgc | agaagagaag  | acatttagaa  | acgagtttcc | aacagacaga | 900 |
| tccgtgttgt  | acttctgatg | cacagccaca  | tgcatttctc  | ctcagtggac | cagcttcacc | 960 |
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 <212> PRT  
 <213> Homo sapiens

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<400> 11126

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Cys | Gly | Ala | Thr | Leu | Lys | Arg | Thr | Leu | Asp | Phe | Asp | Pro | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Ser | Pro | Ala | Ser | Pro | Lys | Arg | Arg | Arg | Cys | Ala | Pro | Leu | Ser | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Thr | Ser | Ala | Ala | Ala | Ser | Pro | Leu | Ser | Ala | Ala | Ala | Ala | Thr | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Ser | Phe | Ser | Ala | Ala | Ala | Ala | Ser | Pro | Gln | Lys | Tyr | Leu | Arg | Met |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Glu | Pro | Ser | Pro | Phe | Gly | Asp | Val | Ser | Ser | Arg | Leu | Thr | Thr | Glu | Gln |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ile | Leu | Tyr | Asn | Ile | Lys | Gln | Glu | Tyr | Lys | Arg | Met | Gln | Lys | Arg | Arg |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     | 95  |     |     |
| His | Leu | Glu | Thr | Ser | Phe | Gln | Gln | Thr | Asp | Pro | Cys | Cys | Thr | Ser | Asp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Gln | Pro | His | Ala | Phe | Leu | Leu | Ser | Gly | Pro | Ala | Ser | Pro | Gly | Thr |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ser | Ser | Ala | Ala | Ser | Ser | Pro |     |     |     |     |     |     |     |     |     |
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<212> DNA

<213> Homo sapiens

<220>

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<222> (35).. (988)

<400> 11127

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| agtctgggtcc | caggcttgcc  | ttggtgcctg | tgacacctcat | ttagaggaga  | agcttagccc  | 120 |
| accagtacca  | tcatgctcag  | ttgtgggagc | catttcttcc  | tactacgtcc  | agcgctacgg  | 180 |
| atttcctcca  | ggatgcaaag  | tggtggcctt | cactggggac  | aaccacagct  | cgctggcagg  | 240 |
| catgagactg  | gaggaagggtg | acattgcggt | cagcctgggc  | accagtgaca  | ccctgtttct  | 300 |
| ctggctccaa  | gagcccatgc  | ctgccctgga | aggccacatc  | ttctgcaacc  | cggttgactc  | 360 |
| ccagcactac  | atggcactcc  | tgtgctttta | aaatggctcc  | ctcatgagag  | agaagatccg  | 420 |
| caacgagtct  | gtatcccgtt  | cctggagcga | tttctctaag  | gcactgcagt  | ccacagagat  | 480 |
| gggcaacggt  | ggaacctgg   | gtttttat   | tgatgtaatg  | gagatcacc   | ctgaaattat  | 540 |
| tggaagtc    | aggtttaaca  | cagaaaacca | caagggttga  | gcattccctg  | gggatgtgga  | 600 |
| ggttcgagca  | ctaattgaag  | gacaattcat | ggccaagagg  | attcacgcag  | aaggcctggg  | 660 |
| ctatcgagtc  | atgtccaaga  | caaagatttt | ggccacagga  | ggagcatctc  | acaatagaga  | 720 |
| aatcttacag  | gtgcttgag   | atgtgtttga | tgccccgggtg | tatgttatag  | acactgccaa  | 780 |
| ctcggcctgt  | gtgggttctg  | cataccgagc | ttttcatggt  | cttgacaggtg | gaacagatgt  | 840 |
| gcccttttca  | gaggttgtga  | agttagctcc | aaatcccaga  | ctagctgcta  | ccccaaagccc | 900 |
| gggagcttct  | caggtctacg  | aggcccttct | ccccagttat  | gccaaactcg  | agcagagaat  | 960 |

008270" 69462960



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cctcagcaca tctgcatgaa gatagatagg cactcctgtc cctgtgcccg tgtgccccag 1200
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<210> 11128  
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 <213> Homo sapiens

<400> 11128

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| Met | Asn | Leu | Leu | Gln | Ile | Gln | Asp | Lys | Val | Trp | Ser | Gln | Ala | Cys | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Ala | Cys | Ala | Pro | His | Leu | Glu | Glu | Lys | Leu | Ser | Pro | Pro | Val | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Cys | Ser | Val | Val | Gly | Ala | Ile | Ser | Ser | Tyr | Tyr | Val | Gln | Arg | Tyr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Phe | Pro | Pro | Gly | Cys | Lys | Val | Val | Ala | Phe | Thr | Gly | Asp | Asn | Pro |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Ser | Leu | Ala | Gly | Met | Arg | Leu | Glu | Glu | Gly | Asp | Ile | Ala | Val | Ser |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Leu | Gly | Thr | Ser | Asp | Thr | Leu | Phe | Leu | Trp | Leu | Gln | Glu | Pro | Met | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Leu | Glu | Gly | His | Ile | Phe | Cys | Asn | Pro | Val | Asp | Ser | Gln | His | Tyr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Met | Ala | Leu | Leu | Cys | Phe | Lys | Asn | Gly | Ser | Leu | Met | Arg | Glu | Lys | Ile |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Asn | Glu | Ser | Val | Ser | Arg | Ser | Trp | Ser | Asp | Phe | Ser | Lys | Ala | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gln | Ser | Thr | Glu | Met | Gly | Asn | Gly | Gly | Asn | Leu | Gly | Phe | Tyr | Phe | Asp |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Met | Glu | Ile | Thr | Pro | Glu | Ile | Ile | Gly | Arg | His | Arg | Phe | Asn | Thr |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Glu | Asn | His | Lys | Val | Ala | Ala | Phe | Pro | Gly | Asp | Val | Glu | Val | Arg | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Ile | Glu | Gly | Gln | Phe | Met | Ala | Lys | Arg | Ile | His | Ala | Glu | Gly | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Tyr | Arg | Val | Met | Ser | Lys | Thr | Lys | Ile | Leu | Ala | Thr | Gly | Gly | Ala |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | His | Asn | Arg | Glu | Ile | Leu | Gln | Val | Leu | Ala | Asp | Val | Phe | Asp | Ala |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Val | Tyr | Val | Ile | Asp | Thr | Ala | Asn | Ser | Ala | Cys | Val | Gly | Ser | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Tyr | Arg | Ala | Phe | His | Gly | Leu | Ala | Gly | Thr | Asp | Val | Pro | Phe | Ser |     |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     | 270 |     |     |     |

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<213> Homo sapiens

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Ser Arg Asn Arg Val Lys Arg Arg Leu Asp Ser Ser Cys Leu Glu Ser  
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Val Lys Gln Lys Cys Val Lys Ser Cys Asn Cys Val Thr Glu Leu Asp  
65 70 75 80  
Gly Gln Val Glu Asn Leu His Leu Asp Leu Cys Cys Leu Ala Gly Asn  
85 90 95  
Gln Glu Asp Leu Ser Lys Asp Ser Leu Gly Pro Thr Lys Ser Ser Lys  
100 105 110  
Ile Glu Gly Ala Gly Thr Ser Ile Ser Glu Pro Pro Ser Pro Ile Ser  
115 120 125  
Pro Tyr Ala Ser Glu Ser Cys Gly Thr Leu Pro Leu Pro Leu Arg Pro  
130 135 140  
Cys Gly Glu Gly Ser Glu Met Val Gly Lys Glu Asn Ser Ser Pro Glu  
145 150 155 160  
Asn Lys Asn Trp Leu Leu Ala Met Ala Ala Lys Arg Lys Ala Glu Asn  
165 170 175  
Pro Ser Pro Arg Ser Pro Ser Ser Gln Thr Pro Asn Ser Arg Arg Gln  
180 185 190  
Ser Gly Lys Thr Leu Pro Ser Pro Val Thr Ile Thr Pro Ser Ser Met  
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<212> DNA

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 <213> Homo sapiens

<400> 11132

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| Met | Leu | Tyr | Pro | Gly | Ser | Val | Tyr | Leu | Leu | Gln | Lys | Ala | Leu | Met | Pro |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Val | Leu | Leu | Gln | Gly | Gln | Ala | Arg | Leu | Val | Glu | Glu | Cys | Asn | Gly | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Ala | Lys | Leu | Leu | Ala | Cys | Asp | Gly | Asn | Glu | Ile | Asp | Thr | Met | Phe |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Asp | Arg | Arg | Gly | Thr | Ala | Glu | Pro | Gln | Gly | Gln | Lys | Leu | Val | Ile |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Cys | Cys | Glu | Gly | Asn | Ala | Gly | Phe | Tyr | Glu | Val | Gly | Cys | Val | Ser | Thr |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Pro | Leu | Glu | Ala | Gly | Tyr | Ser | Val | Leu | Gly | Trp | Asn | His | Pro | Gly | Phe |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ala | Gly | Ser | Thr | Gly | Val | Pro | Phe | Pro | Gln | Asn | Glu | Ala | Asn | Ala | Met |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Val | Val | Val | Gln | Phe | Ala | Ile | His | Arg | Leu | Gly | Phe | Gln | Pro | Gln |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asp | Ile | Ile | Ile | Tyr | Ala | Trp | Ser | Ile | Gly | Gly | Phe | Thr | Ala | Thr | Trp |
| 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Ala | Ala | Met | Ser | Tyr | Pro | Asp | Val | Ser | Ala | Met | Ile | Leu | Asp | Ala | Ser |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Phe | Asp | Asp | Leu | Val | Pro | Leu | Ala | Leu | Lys | Val | Met | Pro | Asp | Ser | Trp |

000220 69462960



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 <213> Homo sapiens

<400> 11134

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| Met | Glu | Pro | Pro | Phe | Thr | Arg | Leu | Glu | Gly | Arg | Met | Ser | Arg | Arg | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ala | Pro | Phe | Gly | Ala | Ser | Gln | Asp | Gly | Ala | Gly | Trp | Val | Gln | Leu | Val |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Arg | Asn | Ala | Ala | Pro | Gln | Pro | Leu | Gln | Thr | Lys | Pro | Asn | Ser | Pro |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ala | Arg | Gly | Trp | Ile | Thr | Gly | His | Pro | Ala | Ala | Ala | Phe | Pro | Pro | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Pro | Arg | Arg | Leu | Pro | Arg | Pro | Glu | Met | Pro | Pro | Val | Trp | Leu | Cys |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Leu | Ser | Pro | Val | Pro | Arg | Gln | Leu | Gly | Gly | Ser | Ile | Pro | Lys | Gln | Met |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| His | Pro | Ala | His | Asp | Gly | Thr | Pro | Gly | Thr | Pro | Ile | Leu | Arg | Thr | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Ser | Phe | Lys | Leu | Glu | Leu | Ala | Gly | Phe | Cys | Leu | Tyr | Arg | His | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Gln | Ser | Leu | Arg | Cys | Cys | Leu | Ala | Gly | Lys | Cys | Arg | Ala | Gly | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Gly | Pro | Gln | Leu | Glu | Ala | Pro | Arg | Cys | Ser | Pro | Pro | Leu | His | Cys |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Arg | Ala | Gln | Gly | Gly | Gln | Glu | Gln | Pro | Gln | Gln | Gln | Gln | Lys | Pro | Asn |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Trp | Glu | Arg | Asn | Arg | Gly | Lys | Asn | Pro | His | Arg | Leu | Leu | Gly | Thr | Tyr |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Lys | Glu | Met | Pro | Thr | Ser | Ile | Leu | Leu | Thr | Trp | His | Leu | Leu | Thr | Trp |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| His | Leu | Leu | Gly | Cys | His | Lys | Thr | Asp | Lys | Ser | Phe | His | Val | Arg | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asp | Thr | Cys | Gln | Gly | Gly | Val | Ser | Lys | Leu | Gly | His | Arg | Gln | His | Pro |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Arg | Pro | Gly | His | Trp | Val | Glu | Glu | Thr | Val | Leu | Gly | Arg | Ser | Arg | Arg |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |

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Glu Gly Pro Gly Leu Phe Pro  
260

<210> 11135  
<211> 1276  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (247).. (1101)

<400> 11135  
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gaggaggagg agcgcgagct cagcgataca agtacataaa taaaggataa aatattttat 180  
gaaacaaatc ttcaatcaag tataacattt tgatgcttgg catctagact cccttgtgcc 240  
ctcactatgc cagcggcaac tgtagatcat agccaaagaa tttgtgaagt ttgggcttgc 300  
aacttggatg aagagatgaa gaaaattcgt caagttatcc gaaaatataa ttacgttgct 360  
atggacaccg agtttccagg tgtggttgca agaccattg gagaattcag gagcaatgct 420  
gactatcaat accaactatt gcggtgtaat gtagacttgt taaagataat tcagctagga 480  
ctgacattta tgaatgagca aggagaatac cctccaggaa cttcaacttg gcagtttaat 540  
tttaaattta atttgacgga ggacatgtat gcccaggact ctatagagct actaacaaca 600  
tctggtatcc agtttaaaaa acatgaggag gaaggaattg aaaccagta ctttgcagaa 660  
cttcttatga cttctggagt ggtcctctgt gaaggggtca aatggttgtc atttcatagc 720  
ggttacgact ttggctactt aatcaaaatc ctaaccaact ctaacttgc tgaagaagaa 780  
cttgacttct ttgagatcct tcgattgttt ttctctgtca tttatgatgt gaagtacctc 840  
atgaagagct gcaaaaatct caaagggtga ttacaggagg tggcagaaca gttagagctg 900  
gaacggatag gaccacaaca tcaggcagga tctgattcat tgctcacagg aatggccttt 960  
ttcaaaatga gagaaatgtt ctttgaagat catattgatg atgccaaata ttgtggtcat 1020  
ttgtatggcc ttggttctgg ttcatcctat gtacagaatg gcacaggga tgcatatgaa 1080  
gaggaagcca acaagcgtc atgacatgaa atagtccttt tatttttatt tcgagctaca 1140  
cacatgcttg tatataggtt ttatctctgg ttgaatccct cgaacaatag acagtacctt 1200  
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tatctcagat cttaat 1276

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<211> 285  
<212> PRT  
<213> Homo sapiens

<400> 11136  
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Ala Cys Asn Leu Asp Glu Glu Met Lys Lys Ile Arg Gln Val Ile Arg  
20 25 30

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-4593/13211-

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Lys Tyr Asn Tyr Val Ala Met Asp Thr Glu Phe Pro Gly Val Val Ala
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      50              55              60
Leu Arg Cys Asn Val Asp Leu Leu Lys Ile Ile Gln Leu Gly Leu Thr
      65              70              75              80
Phe Met Asn Glu Gln Gly Glu Tyr Pro Pro Gly Thr Ser Thr Trp Gln
      85              90              95
Phe Asn Phe Lys Phe Asn Leu Thr Glu Asp Met Tyr Ala Gln Asp Ser
      100              105              110
Ile Glu Leu Leu Thr Thr Ser Gly Ile Gln Phe Lys Lys His Glu Glu
      115              120              125
Glu Gly Ile Glu Thr Gln Tyr Phe Ala Glu Leu Leu Met Thr Ser Gly
      130              135              140
Val Val Leu Cys Glu Gly Val Lys Trp Leu Ser Phe His Ser Gly Tyr
      145              150              155              160
Asp Phe Gly Tyr Leu Ile Lys Ile Leu Thr Asn Ser Asn Leu Pro Glu
      165              170              175
Glu Glu Leu Asp Phe Phe Glu Ile Leu Arg Leu Phe Phe Pro Val Ile
      180              185              190
Tyr Asp Val Lys Tyr Leu Met Lys Ser Cys Lys Asn Leu Lys Gly Gly
      195              200              205
Leu Gln Glu Val Ala Glu Gln Leu Glu Leu Glu Arg Ile Gly Pro Gln
      210              215              220
His Gln Ala Gly Ser Asp Ser Leu Leu Thr Gly Met Ala Phe Phe Lys
      225              230              235              240
Met Arg Glu Met Phe Phe Glu Asp His Ile Asp Asp Ala Lys Tyr Cys
      245              250              255
Gly His Leu Tyr Gly Leu Gly Ser Gly Ser Ser Tyr Val Gln Asn Gly
      260              265              270
Thr Gly Asn Ala Tyr Glu Glu Glu Ala Asn Lys Arg Ser
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (3).. (1184)

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 aagccattca gttatctgga gcagaacaac tagaagcttt gaaagctttt gtggaagcaa 120  
 tggtaaataa gaatgtcagt ctctgtatct cgcggcagtt gctgactgat ttttgcacac 180  
 atcttcctaa cttgcctgat agcacagcca aagaaatcta tcacttcacc ttggaaaaga 240

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tccagcctag agtcgtttca tttagaggagc aggttgcttc cataagacag catcttgcac 300
ctatatatga gaaagaagaa gattggagaa atgcagccca agtgttggtg ggaattccctt 360
tggaacagg acaaaaacag tacaatgtag attataaact ggagacttac ttgaagattg 420
ctaggctata tctggaggat gatgatccag tccaggcaga ggcttacata aatcgagcat 480
cgttgcttca gaatgaatca accaatgaac aattacagat acattataag gtatgctatg 540
cacgtgttct tgattataga agaaaattca ttgaagctgc acaaaggtac aatgagctct 600
cttacaagac aatagtccac gaaagtgaag gactagaggc cttaaaacat gctttgcact 660
gtacgatctt agcatcagca gggcagcagc gttctcggtat gctagctact ctttttaagg 720
atgaaagggtg ccagcaactt gctgcctatg ggatcctaga gaaaatgtat ctagatagga 780
tcatcagagg aaatcaactt caagaatttg ctgccatgct gatgcctcac caaaaagcaa 840
ctacagctga tggttccagc atcttggaca gagctgttat tgaacacaat ttgttgtctg 900
caagcaaatt atataataat attaccttcg aagaacttgg agctctttta gagatccctg 960
cagctaaggc ggaaaagata gcatctcaaa tgataaccga aggacgtatg aatggattta 1020
ttgaccagat tgatggaata gttcattttg aaacacgaga agccctgcca acgtgggata 1080
agcagatcca atcactttgt ttccaagtga ataacctttt ggagaaaatt agtcaaacag 1140
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ttctgtgcac atgacatctt ttccatggt gtgcagatca gtttcaactat ctccaaagca 1260
tttgcacatc gaccttatac atttcaatcc cttttatgct ggattccgtt taaagaagac 1320
attattagag caggaagtac aagcatttaa aatatgtagt tcccatatat ttcagggctc 1380
ctgtgtatta agctaactca gatgttttga aagcttttct tttaaacaga ggtgaaatat 1440
ctgtggctaa aaagtttgag atttgtgata actttgtagt catgtaaaac ttaagtgcct 1500
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<210> 11138  
 <211> 394  
 <212> PRT  
 <213> Homo sapiens

<400> 11138

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Ser | Ser | Gly | Ser | His | Lys | Asp | Leu | Ala | Gly | Lys | Tyr | Arg | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ile | Leu | Glu | Lys | Ala | Ile | Gln | Leu | Ser | Gly | Ala | Glu | Gln | Leu | Glu | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Lys | Ala | Phe | Val | Glu | Ala | Met | Val | Asn | Glu | Asn | Val | Ser | Leu | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Ser | Arg | Gln | Leu | Leu | Thr | Asp | Phe | Cys | Thr | His | Leu | Pro | Asn | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Asp | Ser | Thr | Ala | Lys | Glu | Ile | Tyr | His | Phe | Thr | Leu | Glu | Lys | Ile |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Gln | Pro | Arg | Val | Val | Ser | Phe | Glu | Glu | Gln | Val | Ala | Ser | Ile | Arg | Gln |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Leu | Ala | Ser | Ile | Tyr | Glu | Lys | Glu | Asp | Trp | Arg | Asn | Ala | Ala |     |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Gln | Val | Leu | Val | Gly | Ile | Pro | Leu | Glu | Thr | Gly | Gln | Lys | Gln | Tyr | Asn |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Val | Asp | Tyr | Lys | Leu | Glu | Thr | Tyr | Leu | Lys | Ile | Ala | Arg | Leu | Tyr | Leu |

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|   |     |     |
|---|-----|-----|
| 130   | 135 | 140 |
| Glu Asp Asp Asp Pro Val Gln Ala Glu Ala Tyr Ile Asn Arg Ala Ser |     |     |
| 145   | 150 | 155 |
| Leu Leu Gln Asn Glu Ser Thr Asn Glu Gln Leu Gln Ile His Tyr Lys |     |     |
|   | 165 | 170 |
| Val Cys Tyr Ala Arg Val Leu Asp Tyr Arg Arg Lys Phe Ile Glu Ala |     |     |
|   | 180 | 185 |
| Ala Gln Arg Tyr Asn Glu Leu Ser Tyr Lys Thr Ile Val His Glu Ser |     |     |
|   | 195 | 200 |
| Glu Arg Leu Glu Ala Leu Lys His Ala Leu His Cys Thr Ile Leu Ala |     |     |
|   | 210 | 215 |
| Ser Ala Gly Gln Gln Arg Ser Arg Met Leu Ala Thr Leu Phe Lys Asp |     |     |
| 225   | 230 | 235 |
| Glu Arg Cys Gln Gln Leu Ala Ala Tyr Gly Ile Leu Glu Lys Met Tyr |     |     |
|   | 245 | 250 |
| Leu Asp Arg Ile Ile Arg Gly Asn Gln Leu Gln Glu Phe Ala Ala Met |     |     |
|   | 260 | 265 |
| Leu Met Pro His Gln Lys Ala Thr Thr Ala Asp Gly Ser Ser Ile Leu |     |     |
|   | 275 | 280 |
| Asp Arg Ala Val Ile Glu His Asn Leu Leu Ser Ala Ser Lys Leu Tyr |     |     |
|   | 290 | 295 |
| Asn Asn Ile Thr Phe Glu Glu Leu Gly Ala Leu Leu Glu Ile Pro Ala |     |     |
| 305   | 310 | 315 |
| Ala Lys Ala Glu Lys Ile Ala Ser Gln Met Ile Thr Glu Gly Arg Met |     |     |
|   | 325 | 330 |
| Asn Gly Phe Ile Asp Gln Ile Asp Gly Ile Val His Phe Glu Thr Arg |     |     |
|   | 340 | 345 |
| Glu Ala Leu Pro Thr Trp Asp Lys Gln Ile Gln Ser Leu Cys Phe Gln |     |     |
|   | 355 | 360 |
| Val Asn Asn Leu Leu Glu Lys Ile Ser Gln Thr Ala Pro Glu Trp Thr |     |     |
|   | 370 | 375 |
| Ala Gln Ala Met Glu Ala Gln Met Ala Gln                         |     |     |
| 385   | 390 |     |

<210> 11139  
 <211> 1429  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (202).. (1131)

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 ctgcgccctca gtctcgtctc cggcgcggct acctgccccg ttttccctgt gagttgacct 180

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cgcgcgctgg gccggcgcggt ggcggtgggtg aacctggacc cggccaacga ggggctgccg 360
tacgagtgtg ccgtggacgt gggcgagctg gtggggctgg gcgacgtgat ggacgcgctg 420
cgcttggggc ccaacggcgg cctgctctac tgcattggagt acctggaagc caacctggac 480
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cagggtggagc tctgcacgca tcacggcgcc ttgcgcagca tcttctccca aatggcgag 600
tgggacctca ggctgactgc cgtccacctc gtggattctc actactgcac agacctgcc 660
aagttcattt cagtactgtg tacctccctg gccaccatgc tgcacgtgga actgccccac 720
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cttgtctcct ttatccctct caacatccag gacaaggaga gcattccagc agtctgcag 960
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aagtacctgg caccctcgaa ccagtcagtg gagcaggaag ccatgcagct gtagcaacaa 1140
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ccatactgtc agtggtgtcc gtgagctctg ggccctgccca ccagaaagtc gagcactggt 1380
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<210> 11140  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<400> 11140

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Ala | Ala | Pro | Thr | Thr | Ala | Phe | Gly | Gln | Ala | Val | Thr | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Pro | Pro | Gly | Ser | Gly | Lys | Thr | Thr | Tyr | Cys | Leu | Gly | Met | Ser | Glu | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Arg | Ala | Leu | Gly | Arg | Arg | Val | Ala | Val | Val | Asn | Leu | Asp | Pro | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asn | Glu | Gly | Leu | Pro | Tyr | Glu | Cys | Ala | Val | Asp | Val | Gly | Glu | Leu | Val |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Gly | Leu | Gly | Asp | Val | Met | Asp | Ala | Leu | Arg | Leu | Gly | Pro | Asn | Gly | Gly |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Leu | Leu | Tyr | Cys | Met | Glu | Tyr | Leu | Glu | Ala | Asn | Leu | Asp | Trp | Leu | Arg |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ala | Lys | Leu | Asp | Pro | Leu | Arg | Gly | His | Tyr | Phe | Leu | Phe | Asp | Cys | Pro |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Gly | Gln | Val | Glu | Leu | Cys | Thr | His | His | Gly | Ala | Leu | Arg | Ser | Ile | Phe |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ser | Gln | Met | Ala | Gln | Trp | Asp | Leu | Arg | Leu | Thr | Ala | Val | His | Leu | Val |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Ser | His | Tyr | Cys | Thr | Asp | Pro | Ala | Lys | Phe | Ile | Ser | Val | Leu | Cys |

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|                     |   |                             |  |     |  |     |
|---------------------|---|-----------------------------|--|-----|--|-----|
| 145                 |   | 150                         |  | 155 |  | 160 |
| Thr Ser Leu Ala     | Thr Met Leu His Val                             | Glu Leu Pro His Ile Asn Leu |  |     |  |     |
|                     | 165   | 170                         |  | 175 |  |     |
| Leu Ser Lys Met     | Asp Leu Ile Glu His Tyr Gly Lys Leu Ala Phe Asn |                             |  |     |  |     |
|                     | 180   | 185                         |  | 190 |  |     |
| Leu Asp Tyr Tyr     | Thr Glu Val Leu Asp Leu Ser Tyr Leu Leu Asp His |                             |  |     |  |     |
|                     | 195   | 200                         |  | 205 |  |     |
| Leu Ala Ser Asp     | Pro Phe Phe Arg His Tyr Arg Gln Leu Asn Glu Lys |                             |  |     |  |     |
|                     | 210   | 215                         |  | 220 |  |     |
| Leu Val Gln Leu Ile | Glu Asp Tyr Ser Leu Val Ser Phe Ile Pro Leu     |                             |  |     |  |     |
| 225                 | 230   | 235                         |  | 240 |  |     |
| Asn Ile Gln Asp     | Lys Glu Ser Ile Gln Arg Val Leu Gln Ala Val Asp |                             |  |     |  |     |
|                     | 245   | 250                         |  | 255 |  |     |
| Lys Ala Asn Gly     | Tyr Cys Phe Arg Ala Gln Glu Gln Arg Ser Leu Glu |                             |  |     |  |     |
|                     | 260   | 265                         |  | 270 |  |     |
| Ala Met Met Ser     | Ala Ala Met Gly Ala Asp Phe His Phe Ser Ser Thr |                             |  |     |  |     |
|                     | 275   | 280                         |  | 285 |  |     |
| Leu Gly Ile Gln     | Glu Lys Tyr Leu Ala Pro Ser Asn Gln Ser Val Glu |                             |  |     |  |     |
|                     | 290   | 295                         |  | 300 |  |     |
| Gln Glu Ala Met     | Gln Leu   |                             |  |     |  |     |
| 305                 | 310   |                             |  |     |  |     |

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 <212> DNA  
 <213> Homo sapiens

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 agcaagcgca gggccagtaa cgagaaggag tcagcagccc cagcctcacc ggcaccttcg 180  
 ccggcgccct cgcccacccc agccccgccc cagaaggagc agccccccgc ggagaccctt 240  
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 ccaatggccg gcaccacaga ccgagaagaa gccactcggc tcttggtgta gaagcggcgc 360  
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 gaggccccgga gcggggaggga gcaggaggca cgagagaagg cgcaggccga gcaggaggag 540  
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cctctcccag cacaccagga gaatggcttc tccaccaacg gaccctctgg ggacaagagt 960
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gcacagtgtg gagggctcct ctgcatcacc taccaggatg tctggaggag aaaaagacag 1140
aacaaagatg gaagtggcct gggcccctgg ggggtgggtcc tctctgttgt tttaaatctg 1200
caccttatag actgatgtct ctttgccggg agccagatct gcccctcagt gcattcgtgt 1260
gctcgcacgc gcagacatcc cttctcccc atacacacat atacactcac agcctctctg 1320
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gatgtgaata ctgtaaatag cttgtgctca gactcctctg cgtggagagg gtgggtgcag 1440
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ctgaggggga tccaggtct ggggatgggg gacaccttgg gccacaggat actggttgct 1560
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gtctccagaa ataaagaata attctgcc 1648

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<210> 11142  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 11142

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Thr | Thr | Asp | Arg | Glu | Glu | Ala | Thr | Arg | Leu | Leu | Ala | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Lys | Arg | Arg | Gln | Ala | Arg | Glu | Gln | Arg | Glu | Arg | Glu | Glu | Gln | Glu | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Leu | Gln | Ala | Glu | Arg | Asp | Lys | Arg | Met | Arg | Glu | Glu | Gln | Leu | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Glu | Ala | Glu | Ala | Arg | Ala | Glu | Arg | Glu | Ala | Glu | Ala | Arg | Arg | Arg |
|     |     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |
| Glu | Glu | Gln | Glu | Ala | Arg | Glu | Lys | Ala | Gln | Ala | Glu | Gln | Glu | Glu | Gln |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Arg | Leu | Gln | Lys | Gln | Lys | Glu | Glu | Ala | Glu | Ala | Arg | Ser | Arg | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Ala | Glu | Arg | Gln | Arg | Leu | Glu | Arg | Glu | Lys | His | Phe | Gln | Gln | Gln |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Gln | Glu | Arg | Gln | Glu | Arg | Arg | Lys | Arg | Leu | Glu | Glu | Ile | Met | Lys |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Thr | Arg | Lys | Ser | Glu | Val | Ser | Glu | Thr | Lys | Lys | Gln | Asp | Ser | Lys |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Ala | Asn | Ala | Asn | Gly | Ser | Ser | Pro | Glu | Pro | Val | Lys | Ala | Val | Glu |
|     |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |
| Ala | Arg | Ser | Pro | Gly | Leu | Gln | Lys | Glu | Ala | Val | Gln | Lys | Glu | Glu | Pro |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ile | Pro | Gln | Glu | Pro | Gln | Trp | Ser | Leu | Pro | Ser | Lys | Glu | Leu | Pro | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Leu | Val | Asn | Gly | Leu | Gln | Pro | Leu | Pro | Ala | His | Gln | Glu | Asn | Gly |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Ser | Thr | Asn | Gly | Pro | Ser | Gly | Asp | Lys | Ser | Leu | Ser | Arg | Thr | Pro |

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|   |  |                     |  |     |
|---|--|---------------------|--|-----|
| 210   |  | 215                 |  | 220 |
| Glu Thr Leu Leu Pro Phe Ala Glu Ala Glu Ala |  | Phe Leu Lys Lys Ala |  |     |
| 225   |  | 230                 |  | 235 |
| Val Val Gln Ser Pro Gln Val Thr Glu Val Leu |  |                     |  | 240 |
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000220 69469 072800



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<400> 11146

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ile | Lys | Gln | Ile | Leu | Pro | Glu | His | Ser | Val | Leu | Gln | Asn | Ile | Asn | 1   | 5   | 10  | 15  |
| Phe | Val | Glu | Ala | Phe | Gln | Asp | Glu | Leu | Val | Thr | Glu | Val | Tyr | Asp |     | 20  | 25  | 30  |     |
| Leu | Pro | Gln | Arg | Pro | Asn | Asp | Val | Gln | Leu | Phe | Tyr | Gly | Ser | Met | Cys | 35  | 40  | 45  |     |
| Lys | Ile | Ile | Leu | Ser | Val | Ile | Gly | Glu | Phe | Arg | Asp | Cys | Ile | Ser | Ser | 50  | 55  | 60  |     |
| Arg | Glu | Phe | Leu | Gln | Pro | Ser | Ser | Lys | Ala | Ser | Leu | Glu | Ser | Thr | Ser | 65  | 70  | 75  | 80  |
| Asp | Leu | Gly | Ala | Ser | Gly | Lys | His | Gly | Gly | Asn | Val | Ser | Leu | Asp | Val | 85  | 90  | 95  |     |
| Leu | Pro | Val | Lys | Gly | Pro | Gln | Gly | Ser | Pro | Leu | Leu | Ser | Arg | Ala | Ala | 100 | 105 | 110 |     |
| Arg | Pro | Pro | Pro | Asp | Gln | Leu | Ala | Ser | Glu | Glu | Pro | Trp | Thr | Val | Leu | 115 | 120 | 125 |     |
| Pro | Glu | His | Leu | Ile | Leu | Val | Ala | Pro | Ser | Pro | Cys | Asp | Met | Ala | Lys | 130 | 135 | 140 |     |
| Thr | Gly | Arg | Phe | Gln | Ile | Val | Asn | Asn | Ser | Val | Arg | Leu | Leu | Arg | Phe | 145 | 150 | 155 | 160 |
| Glu | Leu | Cys | Trp | Pro | Ala | His | Cys | Leu | Thr | Val | Thr | Pro | Gln | His | Gly | 165 | 170 | 175 |     |
| Cys | Val | Ala | Pro | Glu | Ser | Lys | Leu | Gln | Ile | Leu | Val | Ser | Pro | Asn | Ser | 180 | 185 | 190 |     |
| Ser | Leu | Ser | Thr | Lys | Gln | Ser | Met | Phe | Pro | Trp | Ser | Gly | Leu | Ile | Tyr | 195 | 200 | 205 |     |
| Ile | His | Cys | Asp | Asp | Gly | Gln | Lys | Lys | Ile | Val | Lys | Val | Gln | Ile | Arg | 210 | 215 | 220 |     |
| Glu | Asp | Leu | Thr | Gln | Val | Glu | Leu | Leu | Thr | Arg | Leu | Thr | Ser | Lys | Pro | 225 | 230 | 235 | 240 |
| Phe | Gly | Ile | Leu | Ser | Pro | Val | Ser | Glu | Pro | Ser | Val | Ser | His | Leu | Val | 245 | 250 | 255 |     |
| Lys | Pro | Met | Thr | Lys | Pro | Pro | Ser | Thr | Lys | Val | Glu | Ile | Arg | Asn | Lys | 260 | 265 | 270 |     |
| Ser | Ile | Thr | Phe | Pro | Thr | Thr | Glu | Pro | Gly | Glu | Thr | Ser | Glu | Ser | Cys | 275 | 280 | 285 |     |

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-4603/13211-

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Ser Leu Ala Pro Pro Tyr Val Lys Gly Val Asp Glu Ser Gly Asp Val  
305 310 315 320  
Phe Arg Ala Thr Tyr Ala Ala Phe Arg Cys Ser Pro Ile Ser Gly Leu  
325 330 335  
Leu Glu Ser His Gly Ile Gln Lys Val Ser Ile Thr Phe Leu Pro Arg  
340 345 350  
Gly Arg Gly Asp Tyr Ala Gln Phe Trp Asp Val Glu Cys His Pro Leu  
355 360 365  
Lys Glu Pro His Met Lys His Thr Leu Arg Phe Gln Leu Ser Gly Gln  
370 375 380  
Ser Ile Glu Ala Glu Asn Glu Pro Glu Asn Ala Cys Leu Ser Thr Asp  
385 390 395 400  
Ser Leu Ile Lys Ile Asp His Leu Val Lys Pro Arg Arg Gln Ala Val  
405 410 415  
Ser Glu Ala Ser Ala Arg Ile Pro Glu Gln Leu Asp Val Thr Ala Arg  
420 425 430  
Gly Val Tyr Ala Pro Glu Asp Val Tyr Arg Phe Leu Pro Thr Ser Val  
435 440 445  
Gly Glu Ser Arg Thr Leu Lys Val Asn Leu Arg Asn Asn Ser Phe Ile  
450 455 460  
Thr His Ser Leu Lys Phe Leu Ser Pro Arg Glu Pro Phe Tyr Val Lys  
465 470 475 480  
His Ser Lys Tyr Ser Leu Arg Ala Gln His Tyr Ile Asn Met Pro Val  
485 490 495  
Gln Phe Lys Pro Lys Ser Ala Gly Lys Phe Glu Ala Leu Leu Val Ile  
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<212> DNA

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<400> 11147

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actcccgctt agcacacct taggcaggcg ccccttcac ctttccccga gaccgtcgtc 360  
gctggagggg gcagggtcca gccgcctgg atcgggtggtg tgcacctgat gggatttggg 420  
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gtgggtgctg ctcttgccgt tttcttcctg ccaagcctga atcaatgttt catctccaac 660
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 <213> Homo sapiens

<400> 11149

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| Met | Ser | Ile | Asn | Glu | Val | Ile | Leu | Ser | Ala | Ser | Gly | Ala | Cys | Lys | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ile | Asp | Ser | Leu | His | Ser | Tyr | Cys | Phe | Ser | Ser | Arg | Gln | Asn | Lys | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Val | Cys | Cys | Leu | Arg | Glu | Gln | Val | Glu | Lys | Lys | Asn | Gly | Glu | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Ser | Leu | Arg | Gln | Arg | Val | Ser | Arg | Ser | Asp | Ser | Gln | Val | Arg | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Leu | Gln | Glu | Lys | Leu | Asp | Glu | Leu | Arg | Arg | Val | Ser | Val | Pro | Tyr | Pro |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Ser | Ser | Leu | Leu | Ser | Pro | Ser | Arg | Glu | Pro | Pro | Lys | Met | Asn | Pro | Val |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  |     |     |
| Val | Glu | Pro | Leu | Ser | Trp | Met | Leu | Gly | Thr | Trp | Leu | Ser | Asp | Pro | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Ala | Gly | Thr | Tyr | Pro | Thr | Leu | Gln | Pro | Phe | Gln | Tyr | Leu | Glu | Glu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Val | His | Ile | Ser | His | Val | Gly | Gln | Pro | Met | Leu | Asn | Phe | Ser | Phe | Asn |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Phe | His | Pro | Asp | Thr | Arg | Lys | Pro | Met | His | Arg | Glu | Cys | Gly | Phe |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     |     | 160 |
| Ile | Arg | Leu | Lys | Pro | Asp | Thr | Asn | Lys | Val | Ala | Phe | Val | Ser | Ala | Gln |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Asn | Thr | Gly | Val | Val | Glu | Val | Glu | Glu | Gly | Glu | Val | Asn | Gly | Gln | Glu |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Leu | Cys | Ile | Ala | Ser | His | Ser | Ile | Ala | Arg | Ile | Ser | Phe | Ala | Lys | Glu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | His | Val | Glu | Gln | Ile | Thr | Arg | Lys | Phe | Arg | Leu | Asn | Ser | Glu | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | Leu | Glu | Gln | Thr | Val | Ser | Met | Ala | Thr | Thr | Thr | Gln | Pro | Met | Thr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | His | Leu | His | Val | Thr | Tyr | Lys | Lys | Val | Thr | Pro |     |     |     |     |
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<220>

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<221> CDS

<222> (66).. (899)

<400> 11150

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a t g g g a t g c c   g g g a g g c c c c   a t c c c g c c a g   g t t t c t t t c a   g g g t c c t c c g   g g g t c a c a g c   120
c c t c g c c g c a   c g c a c a g c c t   c c a c c t c a c a   a t c c t a g c a g   c a t g a t g g g a   c c c c a c a g t c   180
a g c c t t t t a t   g t c a c c g c g a   t a c g c a g g c g   g c c c c a g g c c   c c c g a t c a g a   a t g g g a a a c c   240
a g c c t c c g g g   a g g a g t t c c t   g g g a c a c a g c   c a t t g c t g c c   c a a t t c t a t g   g a t c c c a c a c   300
g a c a a c a a g g   c c a c c c c a a c   a t g g g a g g a t   c a a t g c a g a g   a a t g a a c c c t   c c c c g a g g c a   360
t g g g g c c c a t   g g g t c c c g g c   c c a c a g a a t t   a c g g c a g c g g   c a t g a g a c c a   c c a c c c a a c t   420
c c c t c g g c c c   c g c c a t g c c c   g g g a t t a a c a   t g g g c c c g g g   a g c t g g c a g a   c c c t g g c c c a   480
a t c c t a a c a g   t g c t a a c t c a   a t t c c a t a c t   c c t c c t c a t c   a c c t g g t a c c   t a t g t g g g a c   540
c c c c t g g t g g   t g g c g g t c c t   c c a g g a a c a c   c c a t t a t g c c   c a g t c c c g c a   g a t t c a a c a a   600
a t t c c a g t g a   c a a c a t c t a c   a c a a t g a t t a   a t c c a g t g c c   g c c t g g a g g c   a g c c g g t c c a   660
a c t t c c c g a t   g g g t c c c g g c   t c g g a c g g t c   c g a t g g g c g g   c a t g g g t g g c   a t g g a g c c a c   720
a c c a c a t g a a   t g g a t c a t t a   g g g t c a g g c g   a c a t a g a c g g   a c t t c c a a a a   a a t t c t c c t a   780
a c a a c a t a a g   t g g c a t t a g c   a a t c c t c c a g   g c a c c c c t c g   a g a t g a c g g c   g a g c t a g g a g   840
g g a a c t t c c t   c c a c t c c t t t   c a g a a c g a c a   a t t a t t c t c c   a a g c a t g a c g   a t g a g t g t g t   900
g a t c c c c c c t   t c t c c g a g a c   g c t g a g a g a g   c a g g c a t t g c   a g g c g g g a a g   a t g c c a g a a a   960
t t a t g c a a g a   a g t g a g g t g t   c a t t a t c c a g   g a g c t g g t g g   g g a g g g c a t c   t c c c t g c t c c   1020
c c t c a a c c c c   c t c c c a c c c c   a t c c a c g c c c   c c t a c c t t t c   c c a a t t t t a g   t t t c a t g c a a   1080
t a a a a a g g c c   a a a c t t t t t a   t t c c a t a a a a   c a a g a a g g a c   a a a a c t c t c a   a a a a t g t a t t   1140
t c a a g t c a g t   g a c c a g a a a a   a t c c c a c c c c   t t g c c c t t t c   c c c a a a g g a c   c t t t t c t g t a   1200
c a t g a c a c t t   t t t t g t t g t t   t t t t g t t t g g   g g t t t t a c c a   t t g t t g g g a t   t t t t t a t t t t   1260
g t t t t c a g g g   g g g t t t t t t g   g g g g a a a a t t   t t t t t a a a t g   g a a g c t t c t a   g c a a g c c c c c   1320
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<210> 11151

<211> 278

<212> PRT

<213> Homo sapiens

<400> 11151

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      35               40               45
Gly Pro Arg Pro Pro Ile Arg Met Gly Asn Gln Pro Pro Gly Gly Val
      50               55               60
Pro Gly Thr Gln Pro Leu Pro Asn Ser Met Asp Pro Thr Arg Gln
      65               70               75               80
Gln Gly His Pro Asn Met Gly Gly Ser Met Gln Arg Met Asn Pro Pro
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Arg Gly Met Gly Pro Met Gly Pro Gly Pro Gln Asn Tyr Gly Ser Gly
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Ser Ile Pro Tyr Ser Ser Ser Ser Pro Gly Thr Tyr Val Gly Pro Pro  
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Gly Gly Gly Gly Pro Pro Gly Thr Pro Ile Met Pro Ser Pro Ala Asp  
165 170 175  
Ser Thr Asn Ser Ser Asp Asn Ile Tyr Thr Met Ile Asn Pro Val Pro  
180 185 190  
Pro Gly Gly Ser Arg Ser Asn Phe Pro Met Gly Pro Gly Ser Asp Gly  
195 200 205  
Pro Met Gly Gly Met Gly Gly Met Glu Pro His His Met Asn Gly Ser  
210 215 220  
Leu Gly Ser Gly Asp Ile Asp Gly Leu Pro Lys Asn Ser Pro Asn Asn  
225 230 235 240  
Ile Ser Gly Ile Ser Asn Pro Pro Gly Thr Pro Arg Asp Asp Gly Glu  
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caccgacagc ttagtcaaag aaggcattgc ggctcattt gotgtcaagc ttttcaaagc 720  
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<210> 11153  
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 <212> PRT  
 <213> Homo sapiens

<400> 11153

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Lys | His | Gln | Lys | Pro | Val | Leu | Thr | Gly | Gln | Arg | Phe | Lys | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Lys | Arg | Asp | Glu | Lys | Glu | Lys | Phe | Glu | Pro | Thr | Val | Phe | Arg | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Leu | Val | Gln | Gly | Leu | Asn | Glu | Ala | Gly | Asp | Asp | Leu | Glu | Ala | Val |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ala | Lys | Phe | Leu | Asp | Ser | Thr | Gly | Ser | Arg | Leu | Asp | Tyr | Arg | Arg | Tyr |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Ala | Asp | Thr | Leu | Phe | Asp | Ile | Leu | Val | Ala | Gly | Ser | Met | Leu | Ala | Pro |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Gly | Gly | Thr | Arg | Ile | Asp | Asp | Gly | Asp | Lys | Thr | Lys | Met | Thr | Asn | His |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Cys | Val | Phe | Ser | Ala | Asn | Glu | Asp | His | Glu | Thr | Ile | Arg | Asn | Tyr | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Val | Phe | Asn | Lys | Leu | Ile | Arg | Arg | Tyr | Lys | Tyr | Leu | Glu | Lys | Ala |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Phe | Glu | Asp | Glu | Met | Lys | Lys | Leu | Leu | Leu | Phe | Leu | Lys | Ala | Phe | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Thr | Glu | Gln | Thr | Lys | Leu | Ala | Met | Leu | Ser | Gly | Ile | Leu | Leu | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Asn | Gly | Thr | Leu | Pro | Ala | Thr | Ile | Leu | Thr | Ser | Leu | Phe | Thr | Asp | Ser |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Leu | Val | Lys | Glu | Gly | Ile | Ala | Ala | Ser | Phe | Ala | Val | Lys | Leu | Phe | Lys |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Trp | Met | Ala | Glu | Lys | Asp | Ala | Asn | Ser | Val | Thr | Ser | Ser | Leu | Arg |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Ala | Asn | Leu | Asp | Lys | Arg | Leu | Leu | Glu | Leu | Phe | Pro | Val | Asn | Arg |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |

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Gln Ser Val Asp His Phe Ala Lys Tyr Phe Thr Asp Ala Gly Leu Lys  
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Glu Leu Gln Lys Glu Leu Gln Glu Arg Leu Ser Gln Glu Cys Pro Ile  
260 265 270  
Lys Glu Val Val Leu Tyr Val Lys Glu Glu Met Lys Arg Asn Asp Leu  
275 280 285  
Pro Glu Thr Ala Val Ile Gly Leu Leu Trp Thr Cys Ile Met Asn Ala  
290 295 300  
Val Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu Gln Ala Leu Lys  
305 310 315 320  
His Leu Lys Gln Tyr Ala Pro Leu Leu Ala Val Phe Ser Ser Gln Gly  
325 330 335  
Gln Ser Glu Leu Ile Leu Leu Gln Lys Val Gln Glu Tyr Cys Tyr Asp  
340 345 350  
Asn Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr  
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Lys Ala Asp Val Leu Ser Glu Glu Ala Ile Leu Lys Trp Tyr Lys Glu  
370 375 380  
Ala His Val Ala Lys Gly Lys Ser Val Phe Leu Asp Gln Met Lys Lys  
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 <211> 278  
 <212> PRT  
 <213> Homo sapiens

<400> 11155

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| Met | Glu | Ala | Gly | Pro | Tyr | Leu | Pro | Arg | Ala | Leu | Gln | Gln | Pro | Leu | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Leu | Thr | Arg | Tyr | Gly | Arg | Leu | Leu | Glu | Glu | Leu | Leu | Arg | Glu | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Pro | Glu | Leu | Ser | Ser | Glu | Cys | Arg | Ala | Leu | Gly | Ala | Ala | Val | Gln |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Leu | Leu | Arg | Glu | Gln | Glu | Ala | Arg | Gly | Arg | Asp | Leu | Leu | Ala | Val | Glu |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ala | Val | Arg | Gly | Cys | Glu | Ile | Asp | Leu | Lys | Glu | Gln | Gly | Gln | Leu | Leu |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| His | Arg | Asp | Pro | Phe | Thr | Val | Ile | Cys | Gly | Arg | Lys | Lys | Cys | Leu | Arg |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| His | Val | Phe | Leu | Phe | Glu | His | Leu | Leu | Leu | Phe | Ser | Lys | Leu | Lys | Gly |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Pro | Glu | Gly | Gly | Ser | Glu | Met | Phe | Val | Tyr | Lys | Gln | Ala | Phe | Lys | Thr |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Ala | Asp | Met | Gly | Leu | Thr | Glu | Asn | Ile | Gly | Asp | Ser | Gly | Leu | Cys | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Leu | Trp | Phe | Arg | Arg | Arg | Arg | Ala | Arg | Glu | Ala | Tyr | Thr | Leu | Gln |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |     |
| Ala | Thr | Ser | Pro | Glu | Ile | Lys | Leu | Lys | Trp | Thr | Ser | Ser | Ile | Ala | Gln |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Leu | Leu | Trp | Arg | Gln | Ala | Ala | His | Asn | Lys | Glu | Leu | Arg | Val | Gln | Gln |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Met | Val | Ser | Met | Gly | Ile | Gly | Asn | Lys | Pro | Phe | Leu | Asp | Ile | Lys | Ala |

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|   |     |     |
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| 195   | 200 | 205 |
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| Thr Leu Asp Ser Ser Gly Asp Val Ser Pro Gly Pro Arg Asn Ser Pro |     |     |
| 225   | 230 | 235 |
| Ser Leu Gln Pro Pro His Pro Gly Ser Ser Thr Pro Thr Leu Ala Ser |     |     |
| 245   | 250 | 255 |
| Arg Gly Ile Leu Gly Leu Ser Arg Gln Ser His Ala Arg Ala Leu Ser |     |     |
| 260   | 265 | 270 |
| Asp Pro Thr Thr Pro Leu   |     |     |
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<212> PRT  
<213> Homo sapiens

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<400> 11157

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Phe | Thr | Ser | His | Ile | Asp | Glu | Leu | Tyr | Glu | Ser | Ala | Lys | Lys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Ser | Gly | Gly | Lys | Val | Ala | Asp | Tyr | Ile | Pro | Gln | Leu | Ala | Lys | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Pro | Asp | Leu | Trp | Gly | Val | Ser | Val | Cys | Thr | Val | Asp | Gly | Gln | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| His | Ser | Thr | Gly | Asp | Thr | Lys | Val | Pro | Phe | Cys | Leu | Gln | Ser | Cys | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Pro | Leu | Lys | Tyr | Ala | Ile | Ala | Val | Asn | Asp | Leu | Gly | Thr | Glu | Tyr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Val | His | Arg | Tyr | Val | Gly | Lys | Glu | Pro | Ser | Gly | Leu | Arg | Phe | Asn | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Phe | Leu | Asn | Glu | Asp | Asp | Lys | Pro | His | Asn | Pro | Met | Val | Asn | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Ala | Ile | Val | Val | Thr | Ser | Leu | Ile | Lys | Gln | Gly | Val | Asn | Asn | Ala |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Lys | Phe | Asp | Tyr | Val | Met | Gln | Phe | Leu | Asn | Lys | Met | Ala | Gly | Asn |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Tyr | Val | Gly | Phe | Ser | Asn | Ala | Thr | Phe | Gln | Ser | Glu | Arg | Glu | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gly | Asp | Arg | Asn | Phe | Ala | Ile | Gly | Tyr | Tyr | Leu | Lys | Glu | Lys | Lys | Cys |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Phe | Pro | Glu | Gly | Thr | Asp | Met | Val | Gly | Ile | Leu | Asp | Phe | Tyr | Phe | Gln |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Cys | Ser | Ile | Glu | Val | Thr | Cys | Glu | Ser | Ala | Ser | Val | Met | Ala | Ala |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Thr | Leu | Ala | Asn | Gly | Gly | Phe | Cys | Pro | Ile | Thr | Gly | Glu | Arg | Val | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | Pro | Glu | Ala | Val | Arg | Asn | Thr | Leu | Ser | Leu | Met | His | Ser | Cys | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Met | Tyr | Asp | Phe | Ser | Gly | Gln | Phe | Ala | Phe | His | Val | Gly | Leu | Pro | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Lys | Ser | Gly | Val | Ala | Gly | Gly | Ile | Leu | Leu | Val | Val | Pro | Asn | Val | Met |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gly | Met | Met | Cys | Trp | Ser | Pro | Pro | Leu | Asp | Lys | Met | Gly | Asn | Ser | Val |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Lys | Gly | Ile | His | Phe | Cys | His | Asp | Leu | Val | Ser | Leu | Cys | Asn | Phe | His |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asn | Tyr | Asp | Asn | Leu | Arg | His | Phe | Ala | Lys | Lys | Leu | Asp | Pro | Arg | Arg |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Glu | Gly | Gly | Asp | Gln | Arg | His | Ser | Phe | Gly | Pro | Leu | Asp | Tyr | Glu | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Leu | Gln | Gln | Glu | Leu | Ala | Leu | Lys | Glu | Thr | Val | Trp | Lys | Lys | Val | Ser |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Pro | Glu | Ser | Asn | Glu | Asp | Ile | Ser | Thr | Thr | Val | Val | Tyr | Arg | Met | Glu |
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003220 69462960

Ser Leu  
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<212> PRT  
<213> Homo sapiens

<400> 11159  
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003220-59462960

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<212> DNA  
<213> Homo sapiens

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<400> 11160

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1202

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<210> 11161  
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<212> PRT  
<213> Homo sapiens

<400> 11161

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          20          25          30
Val Leu Ser Ser Ser Arg Ser Ile Leu Glu Asp Pro Pro Ser Ile Ser
          35          40          45
Glu Gly Cys Gly Gly Arg Val Thr Asp Tyr Arg Ile Thr Val Val Pro
          50          55          60
Leu Ala Ser Val Ile Val Lys Glu Ser Leu Thr Glu Glu Asp Val Leu
          65          70          75          80
Asn Cys Gln Lys Thr Ile Tyr Asn Leu Val Asp Met Glu Arg Lys Asn
          85          90          95
Asp Pro Leu Pro Ile Ser Thr Val Gly Thr Arg Gly Lys Gly Pro Lys
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-4616/13211-

Arg Asp Glu Gln Tyr Arg Ile Met Trp Asn Glu Leu Glu Thr Leu Val  
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Arg Ala His Ile Asn Asn Ser Glu Lys His Gln Arg Val Leu Glu Cys  
130 135 140  
Leu Met Ala Cys Arg Ser Lys Pro Pro Glu Glu Glu Glu Arg Lys Lys  
145 150 155 160  
Arg Gly Arg Lys Arg Glu Asp Lys Glu Asp Lys Ser Glu Lys Ala Val  
165 170 175  
Lys Asp Tyr Glu Gln Glu Lys Ser Trp Gln Asp Ser Glu Arg Leu Lys  
180 185 190  
Gly Ile Leu Glu Arg Gly Lys Glu Glu Leu Ala Glu Ala Glu Ile Ile  
195 200 205  
Lys Asp Ser Pro Asp Ser Pro Glu Pro Pro Asn Lys Lys Pro Leu Val  
210 215 220  
Glu Met Asp Glu Thr Pro Gln Val Glu Lys Ser Lys Gly Pro Val Ser  
225 230 235 240  
Leu Leu Ser Leu Trp Ser Asn Arg Ile Asn Thr Ala Asn Ser Arg Lys  
245 250 255  
His Gln Glu Phe Ala Gly Arg Leu Asn Ser Val Asn Asn Arg Ala Glu  
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008270.6946360

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<210> 11163  
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 <212> PRT  
 <213> Homo sapiens

<400> 11163

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Leu | Pro | Val | Gly | Arg | Gly | Met | Phe | Thr | Leu | Phe | Ser | Tyr | His |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Pro | Val | Pro | Thr | Glu | Pro | Leu | Pro | Ile | Pro | Lys | Leu | Asn | Leu | Thr | Gly |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |
| Arg | Ala | Pro | Pro | Arg | Asn | Thr | Thr | Val | Asp | Leu | Asn | Ser | Gly | Asn | Ile |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Val | Pro | Pro | Asn | Met | Thr | Ser | Trp | Ala | Ser | Phe | His | Asn | Gly | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Ala | Gly | Leu | Lys | Ile | Ala | Pro | Ala | Ser | Gln | Ile | Asp | Ser | Ala | Trp |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Val | Tyr | Asn | Lys | Pro | Lys | His | Ala | Glu | Leu | Ala | Asn | Glu | Tyr | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Phe | Leu | Met | Ala | Leu | Gly | Leu | Asn | Gly | His | Leu | Thr | Lys | Leu | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Leu | Asn | Ile | His | Asp | Tyr | Leu | Thr | Lys | Gly | His | Glu | Met | Thr | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ile | Gly | Leu | Leu | Leu | Gly | Val | Ser | Ala | Ala | Lys | Leu | Gly | Thr | Met | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Met | Ser | Ile | Thr | Arg | Leu | Leu | Ser | Ile | Arg | Ile | Pro | Ala | Leu | Leu | Pro |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Pro | Thr | Ser | Thr | Glu | Leu | Asp | Val | Pro | His | Asn | Val | Gln | Val | Ala | Ala |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Val | Gly | Ile | Gly | Leu | Val | Tyr | Gln | Gly | Thr | Ala | His | Arg | His | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Glu | Val | Leu | Leu | Ala | Glu | Ile | Gly | Arg | Pro | Pro | Gly | Pro | Glu | Met |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Glu | Tyr | Cys | Thr | Asp | Arg | Glu | Ser | Tyr | Ser | Leu | Ala | Ala | Gly | Leu | Ala |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Gly | Met | Val | Cys | Leu | Gly | His | Gly | Ser | Asn | Leu | Ile | Gly | Met | Ser |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Asp | Leu | Asn | Val | Pro | Glu | Gln | Leu | Tyr | Gln | Tyr | Met | Val | Gly | Gly | His |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     | 255 |     |

000220.69462960



Arg Arg Phe Gln Thr Gly Met His Arg Glu Lys His Lys Ser Pro Ser  
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 Tyr Gln Ile Lys Glu Gly Asp Thr Ile Asn Val Asp Val Thr Cys Pro  
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<400> 11165

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<210> 11166  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 11166

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Gln | Phe | Lys | Lys | Leu | Lys | Lys | Gln | Lys | Leu | Gln | Gln | Met | Gln |
| 50  |     |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Glu | Ser | Gly | Phe | Val | Gln | His | Val | Gly | Phe | Lys | Cys | Asp | Asn | Cys |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Gly | Ile | Glu | Pro | Ile | Gln | Gly | Val | Arg | Trp | His | Cys | Gln | Asp | Cys | Pro |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Pro | Glu | Met | Ser | Leu | Asp | Phe | Cys | Asp | Ser | Cys | Ser | Asp | Cys | Leu | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Thr | Asp | Ile | His | Lys | Glu | Asp | His | Gln | Leu | Glu | Pro | Ile | Tyr | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Glu | Thr | Phe | Leu | Asp | Arg | Asp | Tyr | Cys | Val | Ser | Gln | Gly | Thr | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |
| Tyr | Asn | Tyr | Leu | Asp | Pro | Asn | Tyr | Phe | Pro | Ala | Asn | Arg |     |     |     |
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| Met | Ala | Ser | Lys | Pro | Glu | Lys | Arg | Val | Ala | Ser | Ser | Val | Phe | Ile | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Ala | Pro | Pro | Arg | Arg | Asp | Val | Ala | Val | Ala | Glu | Glu | Val | Arg | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Val | Cys | Glu | Ala | Arg | Arg | Gly | Arg | Pro | Trp | Glu | Ala | Pro | Ala | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Met | Lys | Thr | Pro | Glu | Ala | Gly | Leu | Ala | Gly | Arg | Pro | Ser | Pro | Trp | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Thr | Pro | Gly | Arg | Ala | Ala | Ala | Thr | Val | Pro | Ala | Ala | Pro | Met | Gln | Leu |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Phe | Asn | Gly | Asp | Ile | Cys | Ala | Phe | Cys | His | Lys | Thr | Val | Phe | Pro | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Leu | Ala | Val | Glu | Ala | Met | Lys | Arg | Gln | Tyr | His | Ala | Gln | Cys | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Cys | Arg | Thr | Cys | Arg | Arg | Gln | Leu | Ala | Gly | Gln | Ser | Phe | Tyr | Gln |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Asp | Gly | Arg | Pro | Leu | Cys | Glu | Pro | Cys | Tyr | Gln | Asp | Thr | Leu | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Arg | Cys | Gly | Lys | Cys | Gly | Glu | Val | Val | Arg | Asp | His | Ile | Ile | Arg | Ala |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Leu | Gly | Gln | Ala | Phe | His | Pro | Ser | Cys | Phe | Thr | Cys | Val | Thr | Cys | Ala |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Arg | Cys | Ile | Gly | Asp | Glu | Ser | Phe | Ala | Leu | Gly | Ser | Gln | Asn | Glu | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Tyr | Cys | Leu | Asp | Asp | Phe | Tyr | Arg | Lys | Phe | Ala | Pro | Val | Cys | Ser | Ile |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Cys | Glu | Asn | Pro | Ile | Ile | Pro | Arg | Asp | Gly | Lys | Asp | Ala | Phe | Lys | Ile |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Cys | Met | Gly | Arg | Asn | Phe | His | Glu | Asn | Cys | Tyr | Arg | Cys | Glu | Asp |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Cys | Arg | Ile | Leu | Leu | Ser | Val | Glu | Pro | Thr | Asp | Gln | Gly | Cys | Tyr | Pro |

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<213> Homo sapiens

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| Met | Asp | Ala | Phe | Val | Gly | Pro | Ile | Trp | Ser | Met | Ala | Ala | Ser | Pro | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Ser | Gln | Leu | Leu | Val | Gly | Cys | Glu | Asp | Gly | Ser | Val | Lys | Leu | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Ile | Thr | Pro | Asp | Lys | Ile | Gln | Phe | Glu | Arg | Asn | Phe | Asp | Arg | Gln |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Lys | Ser | Arg | Ile | Leu | Ser | Leu | Ser | Trp | His | Pro | Ser | Gly | Thr | His | Ile |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Ala | Gly | Ser | Ile | Asp | Tyr | Ile | Ser | Val | Phe | Asp | Val | Lys | Ser | Gly |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ser | Ala | Val | His | Lys | Met | Ile | Val | Asp | Arg | Gln | Tyr | Met | Gly | Val | Ser |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Lys | Arg | Lys | Cys | Ile | Val | Trp | Gly | Val | Ala | Phe | Leu | Ser | Asp | Gly | Thr |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Ile | Ile | Ser | Val | Asp | Ser | Ala | Gly | Lys | Val | Gln | Phe | Trp | Asp | Ser | Ala |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Thr | Gly | Thr | Leu | Val | Lys | Ser | His | Leu | Ile | Ala | Asn | Ala | Asp | Val | Gln |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Ile | Ala | Val | Ala | Asp | Gln | Glu | Asp | Ser | Phe | Val | Val | Gly | Thr | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Gly | Thr | Val | Phe | His | Phe | Gln | Leu | Val | Pro | Val | Thr | Ser | Asn | Ser |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ser | Glu | Lys | Gln | Trp | Val | Arg | Thr | Lys | Pro | Phe | Gln | His | His | Thr | His |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Val | Arg | Thr | Val | Ala | His | Ser | Pro | Thr | Ala | Leu | Ile | Ser | Gly | Gly |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Thr | Asp | Thr | His | Leu | Val | Phe | Arg | Pro | Leu | Met | Glu | Lys | Val | Glu | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | Asn | Tyr | Asp | Ala | Ala | Leu | Arg | Lys | Ile | Thr | Phe | Pro | His | Arg | Cys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Ile | Ser | Cys | Ser | Lys | Lys | Arg | Gln | Leu | Leu | Leu | Phe | Gln | Phe | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| His | His | Leu | Glu | Leu | Trp | Arg | Leu | Gly | Ser | Thr | Val | Ala | Thr | Gly | Thr |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Val | Glu | Ala | Met | Cys | Leu | Leu | Ala | Val | Ser | Pro | Asp | Gly | Asn | Trp | Leu |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ala | Ala | Ser | Gly | Thr | Ser | Ala | Gly | Val | His | Val | Tyr | Asn | Val | Lys | Gln |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Leu | Lys | Leu | His | Cys | Thr | Val | Pro | Ala | Tyr | Asn | Phe | Pro | Val | Thr | Ala |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Met | Ala | Ile | Ala | Pro | Asn | Thr | Asn | Asn | Leu | Val | Ile | Ala | His | Ser | Asp |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Gln | Gln | Val | Phe | Glu | Tyr | Ser | Ile | Pro | Asp | Lys | Gln | Tyr | Thr | Asp | Trp |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Arg | Thr | Val | Gln | Lys | Gln | Gly | Phe | His | His | Leu | Trp | Leu | Gln | Arg |

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|   |     |     |
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| Ile Leu Leu His Asp Ala Tyr Met Phe Cys Ile Ile Asp Lys Ser Leu |     |     |
| 385   | 390 | 395 |
| Pro Leu Pro Asn Asp Lys Thr Leu Leu Tyr Asn Pro Phe Pro Pro Thr |     |     |
| 405   | 410 | 415 |
| Asn Glu Ser Asp Val Ile Arg Arg Arg Thr Ala His Ala Phe Lys Ile |     |     |
| 420   | 425 | 430 |
| Ser Lys Ile Tyr Lys Pro Leu Leu Phe Met Asp Leu Leu Asp Glu Arg |     |     |
| 435   | 440 | 445 |
| Thr Leu Val Ala Val Glu Arg Pro Leu Asp Asp Ile Ile Ala Gln Leu |     |     |
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| Pro Pro Pro Ile Lys Lys Lys Phe Gly Thr                         |     |     |
| 465   | 470 | 475 |

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<212> DNA  
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<222> (66).. (1292)

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009220.69462960

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 <211> 409  
 <212> PRT  
 <213> Homo sapiens

<400> 11175  
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 35 40 45  
 Met Tyr Ser Pro Ser Trp Pro Asn Phe Asp Tyr Thr Met Val Val Ile  
 50 55 60  
 Phe Val Ile Ala Val Phe Thr Val Ala Leu Gly Gly Tyr Trp Ser Gly  
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 Leu Val Glu Leu Glu Asn Leu Lys Ala Val Thr Thr Glu Asp Arg Glu  
 85 90 95  
 Met Arg Lys Lys Lys Glu Glu Tyr Leu Thr Phe Ser Pro Leu Thr Val  
 100 105 110  
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 Phe Tyr Lys Trp Leu Val Tyr Val Met Ile Ala Ile Phe Cys Ile Ala  
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 Pro Tyr Gly Gln Cys Thr Ile Ala Cys Arg Gly Lys Asn Met Glu Val  
 165 170 175  
 Arg Leu Ile Phe Leu Ser Gly Leu Cys Ile Ala Val Ala Val Val Trp  
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 195 200 205  
 Leu Gly Ile Ala Phe Cys Leu Asn Leu Ile Lys Thr Leu Lys Leu Pro  
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 Asn Phe Lys Ser Cys Val Ile Leu Leu Gly Leu Leu Leu Tyr Asp  
 225 230 235 240  
 Val Phe Phe Val Phe Ile Thr Pro Phe Ile Thr Lys Asn Gly Glu Ser  
 245 250 255  
 Ile Met Val Glu Leu Ala Ala Gly Pro Phe Gly Asn Asn Glu Lys Leu  
 260 265 270  
 Pro Val Val Ile Arg Val Pro Lys Leu Ile Tyr Phe Ser Val Met Ser

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<210> 11177

<211> 363

<212> PRT

<213> Homo sapiens

<400> 11177

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             20             25             30
Pro His Arg Gln His Arg Leu Phe Thr Ala Pro Thr Phe Thr Gly Ser
             35             40             45
Phe Leu Ser Pro Trp Pro Pro Ala Val Thr Asp Ala Ser Phe Lys Val
             50             55             60
Lys Ser His Val Tyr Ser Leu Glu Gly Gln Asp Arg Lys Tyr Thr Pro
             65             70             75             80
Met Phe Gly Pro Glu Ala Arg Thr Leu Val Leu Arg Leu Ala Gln Leu
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Ile Thr Gln Ala Lys His Thr Ala Lys Ser Ile Ser Asp Gln Cys Ala
             100            105            110
Glu Ser Pro Ala Gly His Ser Phe Leu Ser Trp Leu Gly Phe Ser Ser
             115            120            125
Met Asp Thr Asn Gly Ser Tyr Thr Ala Asn Asp Leu Asp Glu Met Gly
             130            135            140
Gln Asp Ser Val Arg Lys Thr Asp Glu Tyr Leu Glu Lys Ala Leu Glu
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Tyr Leu Arg Gln Ile Phe Arg Leu Ser Glu Ala Gln Leu Arg Gln Phe

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|--|
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |  |  |  |  |
| Thr | Leu | Ala | Leu | Gly | Thr | Thr | Gln | Asp | Glu | Asn | Gly | Lys | Lys | Gln | Leu |  |  |  |  |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |  |  |  |  |
| Pro | Asp | Cys | Ile | Val | Gly | Glu | Asp | Gly | Leu | Ile | Leu | Thr | Pro | Leu | Gly |  |  |  |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |  |  |
| Arg | Tyr | Gln | Ile | Ile | Asn | Gly | Leu | Arg | Arg | Phe | Glu | Ile | Glu | Tyr | Gln |  |  |  |  |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |  |  |  |  |
| Gly | Asp | Pro | Glu | Gln | Gln | Pro | Ile | Arg | Ser | Tyr | Glu | Ile | Ala | Ser | Leu |  |  |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |  |
| Val | Arg | Thr | Leu | Phe | Arg | Leu | Ser | Ser | Ala | Ile | Asn | His | Arg | Phe | Ala |  |  |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |  |
| Gly | Gln | Met | Ala | Ala | Leu | Cys | Ser | Arg | Asp | Asp | Phe | Leu | Gly | Ser | Phe |  |  |  |  |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |  |  |
| Cys | Arg | Tyr | His | Leu | Thr | Glu | Pro | Gly | Leu | Ala | Ser | Arg | His | Leu | Leu |  |  |  |  |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |  |  |
| Ser | Pro | Val | Gly | Arg | Arg | Gln | Val | Ala | Gly | His | Thr | Arg | Gly | Pro | Arg |  |  |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |  |  |
| Leu | Ser | Leu | Arg | Phe | Leu | Gly | Ser | Tyr | Arg | Thr | Leu | Val | Ser | Leu | Leu |  |  |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |  |  |
| Leu | Ala | Phe | Phe | Val | Ala | Ser | Leu | Phe | Cys | Val | Gly | Pro | Leu | Pro | Cys |  |  |  |  |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     |     |     | 335 |     |  |  |  |  |
| Thr | Leu | Leu | Leu | Thr | Leu | Gly | Tyr | Val | Leu | Tyr | Ala | Ser | Ala | Met | Thr |  |  |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |  |  |
| Leu | Leu | Thr | Glu | Arg | Gly | Lys | Leu | His | Gln | Pro |     |     |     |     |     |  |  |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     |     |     |     |  |  |  |  |

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 <212> DNA  
 <213> Homo sapiens

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 ggaaaaagta gcagtgtcag cccttttggga ctgcttatga tttctgcctt agagctacaa 240  
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009270 6946360

|          |         |         |          |         |         |         |      |
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| actatgga | aaactga | cttggta | cacacag  | ttagttc | ggtattt | gag     | 960  |
| aacagta  | aaaagg  | tgtgtgc | atgcct   | catgat  | tttatca | tag     | 1020 |
| gagaatc  | tgtga   | agcac   | tatcctt  | tcatg   | acactaa | gggtttc | 1080 |
| taccttct | gtgcga  | atagga  | ttattccc | atgcct  | ctcttgc | gttagct | 1140 |
| ttgaacg  | gggatt  | atttttc | ccatggc  | acaggg  | aaaacac | ctcttgg | 1200 |
| atgaggc  | tttgct  | agggc   | cagactt  | gggatt  | gttgcct | gttattt | 1260 |
| gtttaag  | ccttatt | cagttat | ctctaatt | gcataat | ataatag | gttctaa | 1320 |
| aaattcc  | ttgtat  | gagac   | acagttat | cttttgc | agttatt | ttggcca | 1380 |
| tttagcc  | tgttaa  | agcatt  | atttattt | gttgga  | atgcccc | actgaag | 1440 |
| ggctaag  | tacgtt  | aaagc   | ccatggg  | ttttaa  | aggtac  | tactttc | 1500 |
| gtttcccc | ctgagg  | gtgc    | ttaaag   | agaaat  | tagaat  | cttacta | 1560 |
| gcttcac  | gagaga  | cctt    | caaaat   | ccctc   | atgacac | tgaatgg | 1620 |
| attcttg  | gggagt  | ttac    | cataca   | atagc   | cttatt  | actaat  | 1680 |
| ggtcact  | ttcact  | ctt     | tttgagg  | aaaaca  | aatgaga | tgtatct | 1740 |
| ccttgtc  | agttg   | gaaat   | tttaatt  | gttg    | caatat  | cttag   | 1800 |
| ttctgtg  | aacac   | ctgaaa  | aaacaa   | attaa   | atgtatt | aaacat  | 1844 |

<210> 11179

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<212> DNA

<213> Homo sapiens

<220>

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<400> 11179

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| aaccgc  | cttacc | agattg  | tgcccg  | caagaa | aacgc  | aaact  | atattc | tagaca | 120  |
| gtttat  | gggtc  | agccag  | agcaaaa | atgag  | accatt | tgaa   | aggttc | gcgcaa | 180  |
| attgta  | atttgc | ctactg  | cgagg   | accta  | aaagac | cgaa   | caataa | agcg   | 240  |
| gaaggga | aagg   | atgtcc  | cagat   | gcggtc | ttagaa | atgaa  | agcca  | actt   | 300  |
| gatgtt  | gggg   | acttc   | ctgga   | tgagg  | ttctg  | ttcatt | tgagc  | tgacg  | 360  |
| aagctag | tgaagg | ggcagt  | acaa    | cgagga | aaggc  | cgcaag | gctg   | ggccac | 420  |
| tttgaca | aacc   | gaggtg  | gttg    | tgcttc | cggg   | ggccg  | cgggg  | gtggtg | 480  |
| tatgaaa | aacc   | gaggac  | cccc    | tgagg  | gcaac  | cgtgg  | cggtc  | ttcaga | 540  |
| agcgtg  | tgag   | gagga   | acta    | ccgagg | aggt   | ttcaac | cgca   | gagg   | 600  |
| cagaacc | gctt   | gggt    | taacaa  | caacc  | gggat  | aaaca  | aaact  | ccaaca | 660  |
| aaccgg  | gctc   | cccag   | caaca   | gccgc  | accca  | cagc   | agcctc | cgccac | 720  |
| cagcag  | ccac   | cgccac  | cacc    | cagct  | acagc  | cctgt  | ctcgga | accccc | 780  |
| tacaata | aaga   | acagca  | acat    | ccctg  | ggtc   | agcg   | ccaata | ccagca | 840  |
| agctac  | agcc   | ctccac  | agcc    | gagtt  | acagc  | cagcc  | accct  | acaacc | 900  |
| cagggc  | taca   | cagcccc | acc     | gcctc  | cacct  | ccacc  | accac  | ctgc   | 960  |
| tacggc  | gggt   | acaacc  | cggc    | ccc    | tata   | acc    | ccacc  | gccac  | 1020 |
| cctcag  | ccca   | gtata   | aacca   | gtatc  | agcag  | tatgc  | cccagc | agtg   | 1080 |
| aaccagg | ggcc   | agtgg   | ccgcc   | atact  | acggg  | aactac | gact   | acggg  | 1140 |
| acacagg | ggtg   | gcaca   | agtag   | acag   | tagcca | gtgtg  | accca  | gagg   | 1200 |

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<210> 11180

<211> 339

<212> PRT

<213> Homo sapiens

<400> 11180

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          35          40          45
Thr Leu Pro Asp Val Gly Asp Phe Leu Asp Glu Val Leu Phe Ile Glu
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Leu Gln Arg Glu Glu Ala Asp Lys Leu Val Arg Gln Tyr Asn Glu Glu
          65          70          75          80
Gly Arg Lys Ala Gly Pro Pro Pro Glu Lys Arg Phe Asp Asn Arg Gly
          85          90          95
Gly Gly Gly Phe Arg Gly Arg Gly Gly Gly Gly Gly Phe Gln Arg Tyr
          100          105          110
Glu Asn Arg Gly Pro Pro Gly Gly Asn Arg Gly Gly Phe Gln Asn Arg
          115          120          125
Gly Gly Gly Ser Gly Gly Gly Gly Asn Tyr Arg Gly Gly Phe Asn Arg
          130          135          140
Ser Gly Gly Gly Gly Tyr Ser Gln Asn Arg Trp Gly Asn Asn Asn Arg
          145          150          155          160
Asp Asn Asn Asn Ser Asn Asn Arg Gly Ser Tyr Asn Arg Ala Pro Gln
          165          170          175
Gln Gln Pro Pro Pro Gln Gln Pro Pro Pro Pro Gln Pro Pro Pro Gln
          180          185          190
Gln Pro Pro Pro Pro Pro Ser Tyr Ser Pro Ala Arg Asn Pro Pro Gly
          195          200          205
Ala Ser Thr Tyr Asn Lys Asn Ser Asn Ile Pro Gly Ser Ser Ala Asn
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Ser Gln Pro Pro Tyr Asn Gln Gly Gly Tyr Ser Gln Gly Tyr Thr Ala
          245          250          255

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 Gly Gly Tyr Asn Pro Ala Pro Tyr Thr Pro Pro Pro Pro Pro Thr Ala  
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 Gln Thr Tyr Pro Gln Pro Ser Tyr Asn Gln Tyr Gln Gln Tyr Ala Gln  
 290 295 300  
 Gln Trp Asn Gln Tyr Tyr Gln Asn Gln Gly Gln Trp Pro Pro Tyr Tyr  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (109).. (1353)

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<400> 11182

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| Met | Ile | Ser | Gly | Phe | Val | Lys | Gly | Asp | Val | His | Asn | Trp | Lys | Leu | Thr |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Glu | Glu | Asp | Tyr | Glu | Leu | Ala | Met | Ala | Glu | Leu | Asn | Asp | Thr | Tyr | Ser |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Leu | Gly | Pro | Leu | Gly | Ser | Gly | Gly | Phe | Val | Pro | Phe | Gly | Phe | Glu | Gly |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ile | Leu | Arg | Gly | Ala | Ala | Thr | Cys | Phe | Tyr | Ala | Phe | Val | Gly | Phe | Asp |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Cys | Ile | Ala | Thr | Thr | Gly | Glu | Glu | Ala | Gln | Asn | Pro | Gln | Arg | Ser | Ile |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Pro | Met | Gly | Ile | Val | Ile | Ser | Leu | Ser | Val | Cys | Phe | Leu | Ala | Tyr | Phe |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Val | Ser | Ser | Ala | Leu | Thr | Leu | Met | Met | Pro | Tyr | Tyr | Gln | Leu | Gln |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Glu | Ser | Pro | Leu | Pro | Glu | Ala | Phe | Leu | Tyr | Ile | Gly | Trp | Ala | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Arg | Tyr | Val | Val | Ala | Val | Gly | Ser | Leu | Cys | Ala | Leu | Ser | Thr | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Leu | Gly | Ser | Met | Phe | Pro | Met | Pro | Arg | Val | Ile | Tyr | Ala | Met | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Glu | Asp | Gly | Leu | Leu | Phe | Arg | Val | Leu | Ala | Arg | Ile | His | Thr | Gly | Thr |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Arg | Thr | Pro | Ile | Ile | Ala | Thr | Val | Val | Ser | Gly | Ile | Ile | Ala | Ala | Phe |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Met | Ala | Phe | Leu | Phe | Lys | Leu | Thr | Asp | Leu | Val | Asp | Leu | Met | Ser | Ile |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Thr | Leu | Leu | Ala | Tyr | Ser | Leu | Val | Ser | Ile | Cys | Val | Leu | Ile | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | Glu | Glu | Ala | Ile | Thr | Thr | Glu | Ser | Glu | Lys | Leu | Thr | Leu | Trp | Gly |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Phe | Phe | Pro | Leu | Asn | Ser | Ile | Pro | Thr | Pro | Leu | Ser | Gly | Gln | Ile |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Val | Tyr | Val | Cys | Ser | Ser | Leu | Leu | Ala | Val | Leu | Leu | Thr | Ala | Leu | Cys |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Leu | Val | Leu | Ala | Gln | Trp | Ser | Val | Pro | Leu | Leu | Ser | Gly | Asp | Leu | Leu |

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|                         |                     |                     |     |     |
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| Trp Thr Ala Val Val Val | Leu Leu Leu Leu Leu | Ile Ile Gly Ile Ile |     |     |
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| Val Val Ile Trp Arg Gln | Pro Gln Ser Ser Thr | Pro Leu His Phe Lys |     |     |
|                         | 325                 | 330                 | 335 |     |
| Val Pro Ala Leu Pro Leu | Leu Pro Leu Met Ser | Ile Phe Val Asn Ile |     |     |
|                         | 340                 | 345                 | 350 |     |
| Tyr Leu Met Met Gln Met | Thr Ala Gly Thr Trp | Ala Arg Phe Gly Val |     |     |
|                         | 355                 | 360                 | 365 |     |
| Trp Met Leu Ile Gly Phe | Ala Ile Tyr Phe Gly | Tyr Gly Ile Gln His |     |     |
|                         | 370                 | 375                 | 380 |     |
| Ser Leu Glu Glu Ile Lys | Ser Asn Gln Pro Ser | Arg Lys Ser Arg Ala |     |     |
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| ccttctcccc  | gctgcaaccc | gggcaggcgc  | ccacaggcgc | ggctcacagc | accatgacag | 180  |
| gctctgggggt | ggatgccagg | acagccagct  | ccgggagcag | cgtgtgggaa | ggacagctgc | 240  |
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| accagctcca  | caagcagcag | gcccaggctg  | aacctgagcg | gcatgtatgg | caccgccggg | 360  |
| agagtgatga  | gagtggagaa | agcggccctg  | atgaaggggg | agagggcgcc | cggggccccc | 420  |
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| ccaccgccct  | gcatgggggc | ttccagaggc  | gctacggttg | catcacagat | cctggcacag | 540  |
| tgcccagggt  | tcctctcat  | ttctctcggc  | tgctctttgg | agggtgggca | gaagatgggc | 600  |
| agtcggcatc  | aaggcaccct | gagcccgtgc  | ccgaagaggg | ctcggaggat | gagctacccc | 660  |
| ctcagggtgca | caaggtatag | acaaggctga  | gcagggttcc | tgtggcccag | gatggaggcc | 720  |
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| ctcaccgcga  | gttctcgccc | agtgtctgcag | ccggctcacc | tctctccgct | tcttgcacat | 1200 |
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Gln Ala Gln Ala Glu Pro Glu Arg His Val Trp His Arg Arg Glu Ser  
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Arg Tyr Gly Gly Ile Thr Asp Pro Gly Thr Val Pro Arg Val Pro Ser  
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Glu Arg Asp Asn Ile Cys Lys Gln Ile His Leu Pro Ala Gln Ser Gly  
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225 230 235 240  
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245 250 255  
His Val Gln Thr Val Ser Leu Leu Arg Glu Val Gln Tyr Asn Met Gly  
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<400> 11188

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| Met | Ser | Leu | Val | Pro | Ala | Thr | Asn | Tyr | Ile | Tyr | Thr | Pro | Leu | Asn | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Lys | Gly | Gly | Thr | Ile | Val | Asn | Val | Tyr | Gly | Val | Val | Lys | Phe | Phe |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |     |
| Lys | Pro | Pro | Tyr | Leu | Ser | Lys | Gly | Thr | Asp | Tyr | Cys | Ser | Val | Val | Thr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Val | Asp | Gln | Thr | Asn | Val | Lys | Leu | Thr | Cys | Leu | Leu | Phe | Ser | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asn | Tyr | Glu | Ala | Leu | Pro | Ile | Ile | Tyr | Lys | Asn | Gly | Asp | Ile | Val | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Phe | His | Arg | Leu | Lys | Ile | Gln | Val | Tyr | Lys | Lys | Glu | Thr | Gln | Gly | Ile |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Ser | Ser | Gly | Phe | Ala | Ser | Leu | Thr | Phe | Glu | Gly | Thr | Leu | Gly | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Pro | Ile | Ile | Pro | Arg | Thr | Ser | Ser | Lys | Tyr | Phe | Asn | Phe | Thr | Thr | Glu |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Asp | His | Lys | Met | Val | Glu | Ala | Leu | Arg | Val | Trp | Ala | Ser | Thr | His | Met |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Pro | Ser | Trp | Thr | Leu | Leu | Lys | Leu | Cys | Asp | Val | Gln | Pro | Met | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Tyr | Phe | Asp | Leu | Thr | Cys | Gln | Leu | Leu | Gly | Lys | Ala | Glu | Val | Asp | Gly |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ala | Ser | Phe | Leu | Leu | Lys | Val | Trp | Asp | Gly | Thr | Arg | Thr | Pro | Phe | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Trp | Arg | Val | Leu | Ile | Gln | Asp | Leu | Val | Leu | Glu | Gly | Asp | Leu | Ser |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |
| His | Ile | His | Arg | Leu | Gln | Asn | Leu | Thr | Ile | Asp | Ile | Leu | Val | Tyr | Asp |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asn | His | Val | His | Val | Ala | Arg | Ser | Leu | Lys | Val | Gly | Ser | Phe | Leu | Arg |
| 225 |     |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |
| Ile | Tyr | Ser | Leu | His | Thr | Lys | Leu | Gln | Ser | Met | Asn | Ser | Glu | Asn | Gln |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Thr | Met | Leu | Ser | Leu | Glu | Phe | His | Leu | His | Gly | Gly | Thr | Ser | Tyr | Gly |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Arg | Gly | Ile | Arg | Val | Leu | Pro | Glu | Ser | Asn | Ser | Asp | Val | Asp | Gln | Leu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Lys | Lys | Asp | Leu | Glu | Ser | Ala | Asn | Leu | Thr | Ala | Asn | Gln | His | Ser | Asp |
|     | 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |
| Val | Ile | Cys | Gln | Ser | Glu | Pro | Asp | Asp | Ser | Phe | Pro | Ser | Ser | Gly | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Val | Ser | Leu | Tyr | Glu | Val | Glu | Arg | Cys | Gln | Gln | Leu | Ser | Ala | Thr | Ile |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Leu | Thr | Asp | His | Gln | Tyr | Leu | Glu | Arg | Thr | Pro | Leu | Cys | Ala | Ile | Leu |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Lys | Gln | Lys | Ala | Pro | Gln | Gln | Tyr | Arg | Ile | Arg | Ala | Lys | Leu | Arg | Ser |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |

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Pro Gly Ile Lys Ile Asp Ala Tyr Pro Trp Leu Glu Cys Phe Ile Lys  
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| actgtgggtg  | tgatagaatg  | ctttgccgaa  | tgaaaggagt  | caacagctat  | cccagcctct | 600  |
| tcatttttcg  | gtctggaatg  | gccccagtga  | aatatcatgg  | agacagatca  | aaggagagtt | 660  |
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| ccaatgacaa  | agaaccatgg  | cttgttgatt  | tctttgcccc  | ctgggtgtcca | ccatgtcgag | 1440 |
| ctttactacc  | agagttacga  | agagcatcaa  | atcttcttta  | tggtcagctt  | aagtttggtg | 1500 |
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| caacagtggg  | attcaaccag  | tccaacattc  | atgagtatga  | aggacatcac  | tctgctgaac | 1620 |
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| ccttcaacga  | actagttaca  | caaagaaaac  | acaacgaagt  | ctggatgggt  | gatttctatt | 1740 |
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| taactggact  | gatcaacgtg  | ggcagtatag  | attgccaaca  | gtatcattct  | ttttgtgccc | 1860 |
| aggaaaacgt  | tcaaagatac  | cctgagataa  | gattttttcc  | cccgaaatca  | aataaagctt | 1920 |
| atcattatca  | cagttacaat  | ggttgggaata | gggatgctta  | ttccctgaga  | atctggggtc | 1980 |
| taggattttt  | acctcaagta  | tccacagatc  | taacacctca  | gactttcagt  | gaaaaagttc | 2040 |
| tacaaggga   | aaatcattgg  | gtgattgatt  | tctatgctcc  | ttgggtgtgga | ccttgccaga | 2100 |
| attttgctcc  | agaatttgag  | ctcttggcta  | ggatgattaa  | aggaaaagtg  | aaagctggaa | 2160 |
| aagtagactg  | tcaggcttat  | gctcagacat  | gccagaaaagc | tgggatcagg  | gcctatccaa | 2220 |
| ctgttaaatt  | ttattttctac | gaaagagcaa  | agagaaaattt | tcaagaagag  | cagataaata | 2280 |
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| Met | Ala | Ile | Leu | Val | Gly | Thr | Asp | Gln | Asp | Phe | Tyr | Ser | Leu | Leu | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Ser | Lys | Thr | Ala | Ser | Ser | Arg | Glu | Ile | Arg | Gln | Ala | Phe | Lys | Lys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Ala | Leu | Lys | Leu | His | Pro | Asp | Lys | Asn | Pro | Asn | Asn | Pro | Asn | Ala |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| His | Gly | Asp | Phe | Leu | Lys | Ile | Asn | Arg | Ala | Tyr | Glu | Val | Leu | Lys | Asp |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Asp | Leu | Arg | Lys | Lys | Tyr | Asp | Lys | Tyr | Gly | Glu | Lys | Gly | Leu | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Asp | Asn | Gln | Gly | Gly | Gln | Tyr | Glu | Ser | Trp | Asn | Tyr | Tyr | Arg | Tyr | Asp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Gly | Ile | Tyr | Asp | Asp | Asp | Pro | Glu | Ile | Ile | Thr | Leu | Glu | Arg | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Phe | Asp | Ala | Ala | Val | Asn | Ser | Gly | Glu | Leu | Trp | Phe | Val | Asn | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Tyr | Ser | Pro | Gly | Cys | Ser | His | Cys | His | Asp | Leu | Ala | Pro | Thr | Trp | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Phe | Ala | Lys | Glu | Val | Asp | Gly | Leu | Leu | Arg | Ile | Gly | Ala | Val | Asn |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Cys | Gly | Asp | Asp | Arg | Met | Leu | Cys | Arg | Met | Lys | Gly | Val | Asn | Ser | Tyr |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Ser | Leu | Phe | Ile | Phe | Arg | Ser | Gly | Met | Ala | Pro | Val | Lys | Tyr | His |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Asp | Arg | Ser | Lys | Glu | Ser | Leu | Val | Ser | Phe | Ala | Met | Gln | His | Val |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Arg | Ser | Thr | Val | Thr | Glu | Leu | Trp | Thr | Gly | Asn | Phe | Val | Asn | Ser | Ile |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gln | Thr | Ala | Phe | Ala | Ala | Gly | Ile | Gly | Trp | Leu | Ile | Thr | Phe | Cys | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Gly | Gly | Asp | Cys | Leu | Thr | Ser | Gln | Thr | Arg | Leu | Arg | Leu | Ser | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Met | Leu | Asp | Gly | Leu | Val | Asn | Val | Gly | Trp | Met | Asp | Cys | Ala | Thr | Gln |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Asp | Asn | Leu | Cys | Lys | Ser | Leu | Asp | Ile | Thr | Thr | Ser | Thr | Thr | Ala | Tyr |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Phe | Pro | Pro | Gly | Ala | Thr | Leu | Asn | Asn | Lys | Glu | Lys | Asn | Ser | Ile | Leu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Phe | Leu | Asn | Ser | Leu | Asp | Ala | Lys | Glu | Ile | Tyr | Leu | Glu | Val | Ile | His |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Asn | Leu | Pro | Asp | Phe | Glu | Leu | Leu | Ser | Ala | Asn | Thr | Leu | Glu | Asp | Arg |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Leu | Ala | His | His | Arg | Trp | Leu | Leu | Phe | Phe | His | Phe | Gly | Lys | Asn | Glu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Asn | Ser | Asn | Asp | Pro | Glu | Leu | Lys | Leu | Lys | Thr | Leu | Leu | Lys | Asn |     |
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Cys Ser Asn Leu Tyr Val Phe Gln Pro Ser Leu Ala Val Phe Lys Gly  
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Gln Gly Thr Lys Glu Tyr Glu Ile His His Gly Lys Lys Ile Leu Tyr  
405 410 415  
Asp Ile Leu Ala Ser Ala Lys Glu Ser Val Asn Ser His Val Thr Thr  
420 425 430  
Leu Gly Pro Gln Asn Phe Pro Ala Asn Asp Lys Glu Pro Trp Leu Val  
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Asp Phe Phe Ala Pro Trp Cys Pro Pro Cys Arg Ala Leu Leu Pro Glu  
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Ala Tyr Pro Thr Thr Val Val Phe Asn Gln Ser Asn Ile His Glu Tyr  
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Glu Gly His His Ser Ala Glu Gln Ile Leu Glu Phe Ile Glu Asp Leu  
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Val Thr Gln Arg Lys His Asn Glu Val Trp Met Val Asp Phe Tyr Ser  
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Pro Trp Cys His Pro Cys Gln Val Leu Met Pro Glu Trp Lys Arg Met  
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Ala Arg Thr Leu Thr Gly Leu Ile Asn Val Gly Ser Ile Asp Cys Gln  
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Gln Tyr His Ser Phe Cys Ala Gln Glu Asn Val Gln Arg Tyr Pro Glu  
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Gly Phe Leu Pro Gln Val Ser Thr Asp Leu Thr Pro Gln Thr Phe Ser  
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Pro Trp Cys Gly Pro Cys Gln Asn Phe Ala Pro Glu Phe Glu Leu Leu  
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Ala Tyr Ala Gln Thr Cys Gln Lys Ala Gly Ile Arg Ala Tyr Pro Thr  
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Val Lys Phe Tyr Phe Tyr Glu Arg Ala Lys Arg Asn Phe Gln Glu Glu  
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 Asp Cys Arg Val Leu Gly Leu Arg Glu Ile Leu Lys Thr Tyr Ala Ala  
 65 70 75 80  
 Asp Val Arg Leu Asp Pro Asp Thr Ala Tyr Ser Arg Leu Ile Val Ser  
 85 90 95  
 Glu Asp Arg Lys Arg Val His Tyr Gly Asp Thr Asn Gln Lys Leu Pro  
 100 105 110  
 Asp Asn Pro Glu Arg Phe Tyr Arg Tyr Asn Ile Val Leu Gly Ser Gln  
 115 120 125  
 Cys Ile Ser Ser Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Arg  
 130 135 140  
 Ser Glu Trp Gly Leu Gly Val Cys Lys Gln Asn Val Asp Arg Lys Glu  
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 Val Val Tyr Leu Ser Pro His Tyr Gly Phe Trp Val Ile Arg Leu Arg  
 165 170 175  
 Lys Gly Asn Glu Tyr Arg Ala Gly Thr Asp Glu Tyr Pro Ile Leu Ser  
 180 185 190  
 Leu Pro Val Pro Pro Arg Arg Val Gly Ile Phe Val Asp Tyr Glu Ala  
 195 200 205  
 His Asp Ile Ser Phe Tyr Asn Val Thr Asp Cys Gly Ser His Ile Phe  
 210 215 220  
 Thr Phe Pro Arg Tyr Pro Phe Pro Gly Arg Leu Leu Pro Tyr Phe Ser  
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250

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<212> DNA  
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<222> (381).. (938)

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<210> 11194  
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 <212> PRT  
 <213> Homo sapiens

<400> 11194

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Trp | Leu | Ala | Val | Pro | Tyr | Thr | Asp | Glu | Ala | Arg | Arg | Ser | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Asn | Arg | Leu | Tyr | Gly | Ile | Gln | Gly | Ile | Pro | Thr | Leu | Ile | Met | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Pro | Gln | Gly | Glu | Val | Ile | Thr | Arg | Gln | Gly | Arg | Val | Glu | Val | Leu |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Asn | Asp | Glu | Asp | Cys | Arg | Glu | Phe | Pro | Trp | His | Pro | Lys | Pro | Val | Leu |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Glu | Leu | Ser | Asp | Ser | Asn | Ala | Ala | Gln | Leu | Asn | Glu | Gly | Pro | Cys | Leu |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Val | Leu | Phe | Val | Asp | Ser | Glu | Asp | Asp | Gly | Glu | Ser | Glu | Ala | Ala | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Gln | Leu | Ile | Gln | Pro | Ile | Ala | Glu | Lys | Ile | Ile | Ala | Lys | Tyr | Lys | Ala |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Lys | Glu | Glu | Glu | Ala | Pro | Leu | Leu | Phe | Phe | Val | Ala | Gly | Glu | Asp | Asp |
|     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |     |
| Met | Thr | Asp | Ser | Leu | Arg | Asp | Tyr | Thr | Asn | Leu | Pro | Glu | Ala | Ala | Pro |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Leu | Leu | Thr | Ile | Leu | Asp | Met | Ser | Ala | Arg | Ala | Lys | Tyr | Val | Met | Asp |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Val | Glu | Glu | Ile | Thr | Pro | Ala | Ile | Val | Glu | Ala | Phe | Val | Asn | Asp | Phe |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Leu | Ala | Glu | Lys | Leu | Lys | Pro | Glu | Pro | Ile |     |     |     |     |     |     |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     |     |     |     |

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 <212> DNA  
 <213> Homo sapiens

<220>  
<221> CDS  
<222> (5).. (1168)

<400> 11195

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agttggagag acctaccacc agcgcaagga gggcgttact caccagcagt ggtatctgtt 240
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gaaagtacct gcaatccttt attatgtcaa acggaatctc aattccagat acaacctgaa 360
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cctgggtggg ctggatgctg agtttgtcac ccttaatgag gaggaagcag agttacgcag 540
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tcggggccag ggacccaatg agggatatcc cttcattgat gactacatct ctaccaggga 660
gcaggtgggt gattacttga ctcaatactc gggataaaag cctgggtggc tcgatgccaa 720
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<212> PRT  
<213> Homo sapiens

<400> 11196

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35 40 45  
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50 55 60  
His Gln Arg Lys Glu Gly Val Thr His Gln Gln Trp Tyr Leu Phe Asn  
65 70 75 80  
Asp Phe Leu Ile Glu Pro Ile Asp Lys His Glu Ala Val Gln Phe Asp  
85 90 95  
Met Asn Trp Lys Val Pro Ala Ile Leu Tyr Tyr Val Lys Arg Asn Leu  
100 105 110  
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115 120 125  
Leu Leu Ala Glu Ala Ser Leu Ala Arg Lys Gln Arg Lys Thr His Thr  
130 135 140  
Thr Phe Ile Pro Leu Met Leu Asn Glu Met Pro Gln Ile Gly Asp Leu  
145 150 155 160  
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Val Ala Arg Ile Thr Cys Val Arg Gly Gln Gly Pro Asn Glu Gly Ile  
195 200 205  
Pro Phe Ile Asp Asp Tyr Ile Ser Thr Gln Glu Gln Val Val Asp Tyr  
210 215 220  
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225 230 235 240  
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245 250 255  
Phe Leu Ile Asp Ile Gly Val Lys Phe Val Gly His Gly Leu Gln Lys  
260 265 270  
Asp Phe Arg Val Ile Asn Leu Met Val Pro Lys Asp Gln Val Leu Asp  
275 280 285  
Thr Val Tyr Leu Phe His Met Pro Arg Lys Arg Met Ile Ser Leu Arg  
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Phe Leu Ala Trp Tyr Phe Leu Asp Leu Lys Ile Gln Gly Glu Thr His  
305 310 315 320  
Asp Ser Ile Glu Asp Ala Arg Thr Ala Leu Gln Leu Tyr Arg Lys Tyr  
325 330 335  
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340 345 350  
Leu Lys Gly Leu Tyr Glu Lys Gly Arg Lys Met Asp Trp Lys Val Pro  
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<212> DNA  
<213> Homo sapiens

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<221> CDS  
<222> (72).. (1550)

<400> 11197

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<210> 11198  
 <211> 493  
 <212> PRT  
 <213> Homo. sapiens

<400> 11198

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Lys | Lys | Gly | Lys | Val | Gly | Lys | Ser | Arg | Arg | Asp | Lys | Phe | Tyr | 1   | 5   | 10  | 15  |
| His | Leu | Ala | Lys | Glu | Thr | Gly | Tyr | Arg | Ser | Arg | Ser | Ala | Phe | Lys | Leu | 20  | 25  | 30  |     |
| Ile | Gln | Leu | Asn | Arg | Arg | Phe | Gln | Phe | Leu | Gln | Lys | Ala | Arg | Ala | Leu | 35  | 40  | 45  |     |
| Leu | Asp | Leu | Cys | Ala | Ala | Pro | Gly | Gly | Trp | Leu | Gln | Val | Ala | Ala | Lys | 50  | 55  | 60  |     |
| Phe | Met | Pro | Val | Ser | Ser | Leu | Ile | Val | Gly | Val | Asp | Leu | Val | Pro | Ile | 65  | 70  | 75  | 80  |
| Lys | Pro | Leu | Pro | Asn | Val | Val | Thr | Leu | Gln | Glu | Asp | Ile | Thr | Thr | Glu | 85  | 90  | 95  |     |
| Arg | Cys | Arg | Gln | Ala | Leu | Arg | Lys | Glu | Leu | Lys | Thr | Trp | Lys | Val | Asp | 100 | 105 | 110 |     |
| Val | Val | Leu | Asn | Asp | Gly | Ala | Pro | Asn | Val | Gly | Ala | Ser | Trp | Val | His | 115 | 120 | 125 |     |
| Asp | Ala | Tyr | Ser | Gln | Ala | His | Leu | Thr | Leu | Met | Ala | Leu | Arg | Leu | Ala | 130 | 135 | 140 |     |
| Cys | Asp | Phe | Leu | Ala | Arg | Gly | Gly | Ser | Phe | Ile | Thr | Lys | Val | Phe | Arg | 145 | 150 | 155 | 160 |
| Ser | Arg | Asp | Tyr | Gln | Pro | Leu | Leu | Trp | Ile | Phe | Gln | Gln | Leu | Phe | Arg | 165 | 170 | 175 |     |
| Arg | Val | Gln | Ala | Thr | Lys | Pro | Gln | Ala | Ser | Arg | His | Glu | Ser | Ala | Glu | 180 | 185 | 190 |     |
| Ile | Phe | Val | Val | Cys | Gln | Gly | Phe | Leu | Ala | Pro | Asp | Lys | Val | Asp | Ser | 195 | 200 | 205 |     |
| Lys | Phe | Phe | Asp | Pro | Lys | Phe | Ala | Phe | Lys | Glu | Val | Glu | Val | Gln | Ala | 210 | 215 | 220 |     |
| Lys | Thr | Val | Thr | Glu | Leu | Val | Thr | Lys | Lys | Lys | Pro | Lys | Ala | Glu | Gly | 225 | 230 | 235 | 240 |
| Tyr | Ala | Glu | Gly | Asp | Leu | Thr | Leu | Tyr | His | Arg | Thr | Ser | Val | Thr | Asp | 245 | 250 | 255 |     |
| Phe | Leu | Arg | Ala | Ala | Asn | Pro | Val | Asp | Phe | Leu | Ser | Lys | Ala | Ser | Glu | 260 | 265 | 270 |     |
| Ile | Met | Val | Asp | Asp | Glu | Glu | Leu | Ala | Gln | His | Pro | Ala | Thr | Thr | Glu | 275 | 280 | 285 |     |
| Asp | Ile | Arg | Val | Cys | Cys | Gln | Asp | Ile | Arg | Val | Leu | Gly | Arg | Lys | Glu | 290 | 295 | 300 |     |
| Leu | Arg | Ser | Leu | Leu | Asn | Trp | Arg | Thr | Lys | Leu | Arg | Arg | Tyr | Val | Ala | 305 | 310 | 315 | 320 |
| Lys | Lys | Leu | Lys | Glu | Gln | Ala | Lys | Ala | Leu | Asp | Ile | Ser | Leu | Ser | Ser | 325 | 330 | 335 |     |

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Gly Glu Glu Asp Glu Gly Asp Glu Glu Asp Ser Thr Ala Gly Thr Thr  
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 Lys Gln Pro Ser Lys Glu Glu Glu Glu Glu Glu Glu Glu Glu Gln Leu  
 355 360 365  
 Asn Gln Thr Leu Ala Glu Met Lys Ala Gln Glu Val Ala Glu Leu Lys  
 370 375 380  
 Arg Lys Lys Lys Lys Leu Leu Arg Glu Gln Arg Lys Gln Arg Glu Arg  
 385 390 395 400  
 Val Glu Leu Lys Met Asp Leu Pro Gly Val Ser Ile Ala Asp Glu Gly  
 405 410 415  
 Glu Thr Gly Met Phe Ser Leu Cys Thr Ile Arg Gly His Gln Leu Leu  
 420 425 430  
 Glu Glu Val Thr Gln Gly Asp Met Ser Ala Ala Asp Thr Phe Leu Ser  
 435 440 445  
 Asp Leu Pro Arg Asp Asp Ile Tyr Val Leu Ile Ile Phe Leu Ile Cys  
 450 455 460  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (119).. (2080)

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| Met | Asn | Thr | Leu | Asn | Val | Met | Leu | Gly | Thr | Leu | Asn | Leu | Ala | Leu | Val |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Ala | Glu | Gln | Glu | Ser | Lys | Asp | Ser | Gly | Gly | Ala | Ala | Val | Ala | Glu | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Leu | Ser | Ile | Met | Glu | Ile | Ile | Leu | Asp | Glu | Ser | Asn | Ala | Glu | Pro |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Leu | Ser | Glu | Asp | Lys | Gly | Asn | Leu | Leu | Leu | Thr | Gly | Asp | Lys | Asp | Gln |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Leu | Val | Met | Leu | Leu | Asp | Gln | Ile | Asn | Gly | Thr | Phe | Val | Arg | Ser | Asn |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Pro | Ser | Val | Leu | Gln | Gly | Leu | Leu | Arg | Ile | Ile | Pro | Tyr | Leu | Ser | Phe |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Gly | Glu | Val | Glu | Lys | Met | Gln | Ile | Leu | Val | Glu | Arg | Phe | Lys | Pro | Tyr |
|     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |     |
| Cys | Asn | Phe | Asp | Lys | Tyr | Asp | Glu | Asp | His | Ser | Gly | Asp | Asp | Lys | Val |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Leu | Asp | Cys | Phe | Cys | Lys | Ile | Ala | Ala | Gly | Ile | Lys | Asn | Asn | Ser |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asn | Gly | His | Gln | Leu | Lys | Asp | Leu | Ile | Leu | Gln | Lys | Gly | Ile | Thr | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Asn | Ala | Leu | Asp | Tyr | Met | Lys | Lys | His | Ile | Pro | Ser | Ala | Lys | Asn | Leu |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Asp | Ala | Asp | Ile | Trp | Lys | Lys | Phe | Leu | Ser | Arg | Pro | Ala | Leu | Pro | Phe |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Leu | Arg | Leu | Leu | Arg | Gly | Leu | Ala | Ile | Gln | His | Pro | Gly | Thr | Gln |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Val | Leu | Ile | Gly | Thr | Asp | Ser | Ile | Pro | Asn | Leu | His | Lys | Leu | Glu | Gln |
| 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Val | Ser | Ser | Asp | Glu | Gly | Ile | Gly | Thr | Leu | Ala | Glu | Asn | Leu | Leu | Glu |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| Ala | Leu | Arg | Glu | His | Pro | Asp | Val | Asn | Lys | Lys | Ile | Asp | Ala | Ala | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Glu | Thr | Arg | Ala | Glu | Lys | Lys | Arg | Met | Ala | Met | Ala | Met | Arg | Gln |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Lys | Ala | Leu | Gly | Thr | Leu | Gly | Met | Thr | Thr | Asn | Glu | Lys | Gly | Gln | Val |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
| Val | Thr | Lys | Thr | Ala | Leu | Leu | Lys | Gln | Met | Glu | Glu | Leu | Ile | Glu | Glu |
| 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Pro | Gly | Leu | Thr | Cys | Cys | Ile | Cys | Arg | Glu | Gly | Tyr | Lys | Phe | Gln | Pro |
| 305 |     |     |     | 310 |     |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Lys | Val | Leu | Gly | Ile | Tyr | Thr | Phe | Thr | Lys | Arg | Val | Ala | Leu | Glu |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Glu | Leu | Glu | Asn | Lys | Pro | Arg | Lys | Gln | Gln | Gly | Tyr | Ser | Thr | Val | Ser |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| His | Phe | Asn | Ile | Val | His | Tyr | Asp | Cys | His | Leu | Ala | Ala | Val | Arg | Leu |
|     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Ala | Arg | Gly | Arg | Glu | Glu | Trp | Glu | Ser | Ala | Ala | Leu | Gln | Asn | Ala | Asn |
| 370 |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Thr | Lys | Cys | Asn | Gly | Leu | Leu | Pro | Val | Trp | Gly | Pro | His | Val | Pro | Glu |
| 385 |     |     |     | 390 |     |     |     |     |     | 395 |     |     |     |     | 400 |
| Ser | Ala | Phe | Ala | Thr | Cys | Leu | Ala | Arg | His | Asn | Thr | Tyr | Leu | Gln | Glu |
|     |     |     |     | 405 |     |     |     | 410 |     |     |     |     |     | 415 |     |
| Cys | Thr | Gly | Gln | Arg | Glu | Pro | Thr | Tyr | Gln | Leu | Asn | Ile | His | Asp | Ile |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Lys | Leu | Leu | Phe | Leu | Arg | Phe | Ala | Met | Glu | Gln | Ser | Phe | Ser | Ala | Asp |
|     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |
| Thr | Gly | Gly | Gly | Gly | Arg | Glu | Ser | Asn | Ile | His | Leu | Ile | Pro | Tyr | Ile |
|     | 450 |     |     |     | 455 |     |     |     |     |     | 460 |     |     |     |     |
| Ile | His | Thr | Val | Leu | Tyr | Val | Leu | Asn | Thr | Thr | Arg | Ala | Thr | Ser | Arg |
| 465 |     |     |     | 470 |     |     |     |     |     | 475 |     |     |     |     | 480 |
| Glu | Glu | Lys | Asn | Leu | Gln | Gly | Phe | Leu | Glu | Gln | Pro | Lys | Gly | Lys | Trp |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |     |
| Val | Glu | Ser | Ala | Phe | Glu | Val | Asp | Gly | Pro | Tyr | Tyr | Phe | Thr | Val | Leu |
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| Met | Pro | Gln | Ala | Phe | Leu | Leu | Gly | Ser | Ile | His | Glu | Pro | Ala | Gly | Ala |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Leu | Met | Glu | Pro | Gln | Pro | Cys | Pro | Gly | Ser | Leu | Ala | Glu | Ser | Phe | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Glu | Glu | Leu | Arg | Leu | Asn | Ala | Glu | Leu | Ser | Gln | Leu | Gln | Phe | Ser |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Pro | Val | Gly | Ile | Ile | Tyr | Asn | Pro | Val | Glu | Tyr | Ala | Trp | Glu | Pro |
|     |     |     | 50  |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| His | Arg | Asn | Tyr | Val | Thr | Arg | Tyr | Cys | Gln | Gly | Pro | Lys | Glu | Val | Leu |
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|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Pro | Phe | Gly | Glu | Val | Ser | Met | Val | Arg | Asp | Trp | Leu | Gly | Ile | Val | Gly |
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| Pro | Val | Leu | Thr | Pro | Pro | Gln | Glu | His | Pro | Lys | Arg | Pro | Val | Leu | Gly |

|   |     |     |
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| Val His Asn Leu Cys Pro Leu Leu Phe Leu Ala Pro Ser Gly Arg Asn |     |     |
| 165   | 170 | 175 |
| Leu Thr Pro Ala Glu Leu Pro Ala Lys Gln Arg Glu Gln Leu Leu Gly |     |     |
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| Ile Cys Asp Ala Ala Leu Cys Arg Gln Val Gln Leu Leu Gly Val Arg |     |     |
| 195   | 200 | 205 |
| Leu Val Val Gly Val Gly Arg Leu Ala Glu Gln Arg Ala Arg Arg Ala |     |     |
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| Leu Ala Gly Leu Met Pro Glu Val Gln Val Glu Gly Leu Leu His Pro |     |     |
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| Ser Pro Arg Asn Pro Gln Ala Asn Lys Gly Trp Glu Ala Val Ala Lys |     |     |
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| Met | Lys | Gln | Thr | Pro | Ile | Arg | Met | Leu | Leu | Gly | Ala | Glu | Ala | Val | Gly |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Leu | Val | Lys | Glu | Cys | Asn | Asp | Asn | Thr | Met | Arg | Ala | Phe | Thr | Tyr | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |
| Thr | Arg | Gln | Asn | Phe | Lys | Gly | Phe | Asp | Asp | Asn | Asn | Asp | Asp | Phe | Leu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |
| Thr | Met | Ala | Glu | Cys | Gln | Phe | Ile | Ile | Lys | His | Glu | Leu | Glu | Asn | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
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|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Tyr | Pro | Gly | Lys | Ser | Leu | Leu | Arg | Arg | Leu | Leu | Thr | Ser | Gly | Ile | Val |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ile | Gln | Val | Phe | Pro | Leu | His | Asp | Ser | Glu | Ala | Leu | Lys | Lys | Leu | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Thr | Trp | Tyr | Thr | Arg | Phe | Ala | Leu | Lys | Tyr | Gln | Pro | Ile | Asp | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ile | Arg | Gly | Tyr | Phe | Gly | Glu | Thr | Ile | Ala | Leu | Tyr | Phe | Gly | Phe | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Tyr | Phe | Thr | Phe | Ala | Leu | Ile | Pro | Met | Ala | Val | Ile | Gly | Leu | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
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| Met | Lys | Glu | Asn | Ser | Ile | Ala | Leu | Asn | Ile | Leu | Gly | Lys | Ile | Thr | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Asp | Asp | Pro | Glu | Ser | Glu | Ile | Lys | Met | Lys | Ile | Ala | Met | Leu | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Gln | Leu | Asp | Leu | His | Leu | Leu | Asn | His | Ser | Leu | Lys | His | Ile | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Glu | Ile | Ser | Leu | Ser | Pro | Met | Thr | Val | Lys | Lys | Asp | Ile | Glu | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Lys | Arg | Phe | Ser | Gly | Lys | Gly | Asn | Gln | Thr | Val | Leu | Glu | Ser | Ile |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Tyr | Thr | Ser | Asp | Tyr | Glu | Phe | Ser | Asn | Gly | Cys | Arg | Ala | Pro | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Trp | Arg | Gln | Ile | Arg | Gly | Glu | Ile | Cys | Tyr | Val | Leu | Val | Lys | Pro | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Gly | Glu | Thr | Leu | Cys | Ile | Thr | Cys | Ser | Ala | Gly | Gly | Val | Phe | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asn | Gly | Gly | Lys | Thr | Asp | Asp | Glu | Gly | Asp | Val | Asn | Tyr | Glu | Arg | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Ser | Ile | Tyr | Lys | Asn | Leu | Val | Thr | Phe | Leu | Arg | Glu | Lys | Ser | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Lys | Phe | Ser | Glu | Asn | Met | Ser | Lys | Leu | Gly | Ile | Ser | Phe | Ser | Glu | Asp |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gln | Gln | Lys | Glu | Lys | Asp | Gln | Leu | Gly | Lys | Ala | Pro | Lys | Lys | Glu | Glu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Ala | Ala | Leu | Arg | Lys | Asp | Ile | Ser | Gly | Ser | Asp | Lys | Arg | Ser | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Glu | Arg | Asn | Gln | Ile | Asn | Phe | Trp | Arg | Asn | Gln | Met | Thr | Lys | Arg | Trp |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Glu | Pro | Ser | Leu | Asn | Trp | Lys | Thr | Thr | Val | Asn | Tyr | Lys | Gly | Lys | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Ala | Lys | Glu | Ile | Gln | Glu | Asp | Lys | His | Thr | Gly | Lys | Leu | Glu | Lys |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Pro | Arg | Pro | Ser | Val | Ser | His | Gly | Arg | Ala | Gln | Leu | Leu | Arg | Lys | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Glu | Lys | Ile | Glu | Glu | Thr | Val | Ser | Asp | Ser | Ser | Ser | Glu | Ser | Glu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Glu | Asp | Glu | Glu | Pro | Pro | Asp | His | Arg | Gln | Glu | Ala | Ser | Ala | Asp | Leu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Pro | Ser | Glu | Tyr | Trp | Gln | Ile | Gln | Lys | Leu | Val | Lys | Tyr | Leu | Lys | Gln |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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ggcagctcaa caccacacag aggaacaaaag caaggtgccc ccagagcaga agagaaaggc 2040  
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 <213> Homo sapiens

<400> 11212

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Leu | Thr | Leu | Phe | Val | Gly | Arg | Leu | Pro | Pro | Ser | Ala | Arg |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ser | Glu | Gln | Leu | Glu | Glu | Leu | Phe | Ser | Gln | Val | Gly | Pro | Val | Lys | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Cys | Phe | Val | Val | Thr | Glu | Lys | Gly | Ser | Lys | Ala | Cys | Arg | Gly | Phe | Gly |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Tyr | Val | Thr | Phe | Ser | Met | Leu | Glu | Asp | Val | Gln | Arg | Ala | Leu | Lys | Glu |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Ile | Thr | Thr | Phe | Glu | Gly | Cys | Lys | Ile | Asn | Val | Thr | Val | Ala | Lys | Lys |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Lys | Leu | Arg | Asn | Lys | Thr | Lys | Glu | Lys | Gly | Lys | Asn | Glu | Asn | Ser | Glu |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Cys | Pro | Lys | Lys | Glu | Pro | Lys | Ala | Lys | Lys | Ala | Lys | Val | Ala | Asp | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Ala | Arg | Leu | Ile | Ile | Arg | Asn | Leu | Ser | Phe | Lys | Cys | Ser | Glu | Asp |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asp | Leu | Lys | Thr | Val | Phe | Ala | Gln | Phe | Gly | Ala | Val | Leu | Glu | Val | Asn |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ile | Pro | Arg | Lys | Pro | Asp | Gly | Lys | Met | Arg | Gly | Phe | Gly | Phe | Val | Gln |
|     |     |     | 145 |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |
| Phe | Lys | Asn | Leu | Leu | Glu | Ala | Gly | Lys | Ala | Leu | Lys | Gly | Met | Asn | Met |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Lys | Glu | Ile | Lys | Gly | Arg | Thr | Val | Ala | Val | Asp | Trp | Ala | Val | Ala | Lys |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Lys | Tyr | Lys | Asp | Thr | Gln | Ser | Val | Ser | Ala | Ile | Gly | Glu | Glu | Lys |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ser | His | Glu | Ser | Lys | His | Gln | Glu | Ser | Val | Lys | Lys | Lys | Gly | Arg | Glu |
|     |     |     | 210 |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Glu | Glu | Asp | Met | Glu | Glu | Glu | Glu | Asn | Asp | Asp | Asp | Asp | Asp | Asp | Asp |

008220 59462960

225 230 235 240  
Asp Glu Glu Asp Gly Val Phe Asp Asp Glu Asp Glu Glu Glu Glu Asn  
245 250 255  
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Lys Arg Pro Ala Pro Ala Lys Ser Ser Asp His Ser Glu Glu Asp Ser  
275 280 285  
Asp Leu Glu Glu Ser Asp Ser Ile Asp Asp Gly Glu Glu Leu Ala Gln  
290 295 300  
Ser Asp Thr Ser Thr Glu Glu Gln Glu Asp Lys Ala Val Gln Val Ser  
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Asn Lys Lys Lys Arg Lys Leu Pro Ser Asp Val Asn Glu Gly Lys Thr  
325 330 335  
Val Phe Ile Arg Asn Leu Ser Phe Asp Ser Glu Glu Glu Glu Leu Gly  
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Glu Leu Leu Gln Gln Phe Gly Glu Leu Lys Tyr Val Arg Ile Val Leu  
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His Pro Asp Thr Glu His Ser Lys Gly Cys Ala Phe Ala Gln Phe Met  
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Thr Gln Glu Ala Ala Gln Lys Cys Leu Leu Ala Ala Ser Pro Glu Asn  
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Glu Ala Gly Gly Leu Lys Leu Asp Gly Arg Gln Leu Lys Val Asp Leu  
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Lys Pro Thr Gly Thr Arg Asn Leu Tyr Leu Ala Arg Glu Gly Leu Ile  
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Lys Gly Val His Gly Asn Met Lys Gly Gln Ser Leu Gly Tyr Ala Phe  
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Ala Glu Phe Gln Glu His Glu His Ala Leu Lys Ala Leu Arg Leu Ile  
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Asn Asn Asn Pro Glu Ile Phe Gly Pro Leu Lys Arg Pro Ile Val Glu  
565 570 575  
Phe Ser Leu Glu Asp Arg Arg Lys Leu Lys Met Lys Glu Leu Arg Ile  
580 585 590  
Gln Arg Ser Leu Gln Lys Met Arg Ser Lys Pro Ala Thr Gly Glu Pro  
595 600 605  
Gln Lys Gly Gln Pro Glu Pro Ala Lys Asp Gln Gln Gln Lys Ala Ala

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|   |     |     |     |     |
|---|-----|-----|-----|-----|
| 610   |     | 615 |     | 620 |
| Gln His His Thr Glu Glu Gln Ser Lys Val Pro Pro Glu Gln Lys Arg |     |     |     |     |
| 625   |     | 630 |     | 635 |
| Lys Ala Gly Ser Thr Ser Trp Thr Gly Phe Gln Thr Lys Ala Glu Val |     |     |     | 640 |
|   | 645 |     | 650 | 655 |
| Glu Gln Val Glu Leu Pro Asp Gly Lys Lys Arg Arg Lys Val Leu Ala |     |     |     |     |
|   | 660 |     | 665 | 670 |
| Leu Pro Ser His Arg Gly Pro Lys Ile Arg Leu Arg Asp Lys Gly Lys |     |     |     |     |
|   | 675 |     | 680 | 685 |
| Val Lys Pro Val His Pro Lys Lys Pro Lys Pro Gln Ile Asn Gln Trp |     |     |     |     |
|   | 690 |     | 695 | 700 |
| Lys Gln Glu Lys Gln Gln Leu Ser Ser Glu Gln Val Ser Arg Lys Lys |     |     |     |     |
| 705   |     | 710 |     | 715 |
| Ala Lys Gly Asn Lys Thr Glu Thr Arg Phe Asn Gln Leu Val Glu Gln |     |     |     | 720 |
|   | 725 |     | 730 | 735 |
| Tyr Lys Arg Lys Leu Leu Gly Pro Ser Lys Gly Ala Pro Leu Ala Lys |     |     |     |     |
|   | 740 |     | 745 | 750 |
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 <213> Homo sapiens

<220>  
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 <222> (88).. (1605)

<400> 11213

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| ctctgtgtca | accagacctc | cgggggcatg  | aagccgagct  | cggtcagcgt | gccacagtgc | 120  |
| agcttttttg | aaatggcagc | agctctggat  | tccttctacc  | tcaaggagca | gaccttttat | 180  |
| catgtggcat | cagacagcat | agaatgcagc  | aattttttta  | cttcctatag | ccccttcagc | 240  |
| tactacactg | catgttgcag | gaccataagc  | aggggtgtgt  | caggcttcat | cgactctgaa | 300  |
| caaggtgtct | ttgaagcccc | tactgttgca  | ttttcttccc  | ttgagaagaa | atgtgagggt | 360  |
| gatgccccaa | gctccgttcc | tcacattgag  | gagaacaggt  | atctctttcc | agaagtggac | 420  |
| atgactagca | caaacttcac | aggcctgagc  | tgcagaacca  | acaagactct | caacatctac | 480  |
| cttttgatt  | caaatttggt | ttgggttat   | gcagagagac  | tgggtgctcc | gagctccact | 540  |
| caggtgaaag | aatttgcggc | aattgttgac  | gtgaaagaag  | aatctcatta | catcttggat | 600  |
| ccaaagcaag | cactgatgaa | gctcacccta  | gagtctttta  | ttcaaaaact | cagcgttctc | 660  |
| tatagtccct | tgaaaaggca | tctcattgga  | agtggctctg  | cccagttccc | gtctcagcat | 720  |
| ttaatcactg | aagtgacaac | tgataccttt  | tgggaagtag  | tccttcaaaa | acaggacgtt | 780  |
| ctcctgctct | attacgctcc | gtgggtgcggc | ttctgtccat  | ccctcaatca | catcttcac  | 840  |
| cagctagctc | ggaacctgcc | catggacaca  | ttcactgtgg  | caaggattga | cgtgtctcag | 900  |
| aatgaccttc | cttgggaatt | tatggtcgat  | cgtcttcccta | ctgtcttgtt | tttccctgc  | 960  |
| aacagaaaag | acctaagtgt | gaaatacccc  | gaagacgtcc  | ccatcaccct | tccaaacctg | 1020 |

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<210> 11214  
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 <212> PRT  
 <213> Homo sapiens

<400> 11214

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| Met | Lys | Pro | Ser | Ser | Val | Ser | Val | Pro | Gln | Cys | Ser | Phe | Phe | Glu | Met |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Ala | Ala | Ala | Leu | Asp | Ser | Phe | Tyr | Leu | Lys | Glu | Gln | Thr | Phe | Tyr | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Ala | Ser | Asp | Ser | Ile | Glu | Cys | Ser | Asn | Phe | Leu | Thr | Ser | Tyr | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Phe | Ser | Tyr | Tyr | Thr | Ala | Cys | Cys | Arg | Thr | Ile | Ser | Arg | Gly | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Gly | Phe | Ile | Asp | Ser | Glu | Gln | Gly | Val | Phe | Glu | Ala | Pro | Thr | Val |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ala | Phe | Ser | Ser | Leu | Glu | Lys | Lys | Cys | Glu | Val | Asp | Ala | Pro | Ser | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Val | Pro | His | Ile | Glu | Glu | Asn | Arg | Tyr | Leu | Phe | Pro | Glu | Val | Asp | Met |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Thr | Ser | Thr | Asn | Phe | Thr | Gly | Leu | Ser | Cys | Arg | Thr | Asn | Lys | Thr | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asn | Ile | Tyr | Leu | Leu | Asp | Ser | Asn | Leu | Phe | Trp | Leu | Tyr | Ala | Glu | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Gly | Ala | Pro | Ser | Ser | Thr | Gln | Val | Lys | Glu | Phe | Ala | Ala | Ile | Val |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Asp | Val | Lys | Glu | Glu | Ser | His | Tyr | Ile | Leu | Asp | Pro | Lys | Gln | Ala | Leu |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     | 175 |     |     |
| Met | Lys | Leu | Thr | Leu | Glu | Ser | Phe | Ile | Gln | Asn | Phe | Ser | Val | Leu | Tyr |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Pro | Leu | Lys | Arg | His | Leu | Ile | Gly | Ser | Gly | Ser | Ala | Gln | Phe | Pro |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Ser | Gln | His | Leu | Ile | Thr | Glu | Val | Thr | Thr | Asp | Thr | Phe | Trp | Glu | Val |
|     | 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |

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-4671/13211-

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Gly Phe Cys Pro Ser Leu Asn His Ile Phe Ile Gln Leu Ala Arg Asn  
245 250 255  
Leu Pro Met Asp Thr Phe Thr Val Ala Arg Ile Asp Val Ser Gln Asn  
260 265 270  
Asp Leu Pro Trp Glu Phe Met Val Asp Arg Leu Pro Thr Val Leu Phe  
275 280 285  
Phe Pro Cys Asn Arg Lys Asp Leu Ser Val Lys Tyr Pro Glu Asp Val  
290 295 300  
Pro Ile Thr Leu Pro Asn Leu Leu Arg Phe Ile Leu His His Ser Asp  
305 310 315 320  
Pro Ala Ser Ser Pro Gln Asn Val Ala Asn Ser Pro Thr Lys Glu Cys  
325 330 335  
Leu Gln Ser Glu Ala Val Leu Gln Arg Gly His Ile Ser His Leu Glu  
340 345 350  
Arg Glu Ile Gln Lys Leu Arg Ala Glu Ile Ser Ser Leu Gln Arg Ala  
355 360 365  
Gln Val Gln Val Glu Ser Gln Leu Ser Ser Ala Arg Arg Asp Glu His  
370 375 380  
Arg Leu Arg Gln Gln Gln Arg Ala Leu Glu Glu Gln His Ser Leu Leu  
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His Ala His Ser Glu Gln Leu Gln Ala Leu Tyr Glu Gln Lys Thr Arg  
405 410 415  
Glu Leu Gln Glu Leu Ala Arg Lys Leu Gln Glu Leu Ala Asp Ala Ser  
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Glu Asn Leu Leu Thr Glu Asn Thr Trp Leu Lys Ile Leu Val Ala Thr  
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Met Glu Arg Lys Leu Glu Gly Arg Asp Gly Ala Glu Ser Leu Ala Ala  
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<212> DNA  
<213> Homo sapiens

<220>  
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<222> (158).. (1804)

<400> 11215

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<210> 11216

<211> 549

<212> PRT

<213> Homo sapiens

<400> 11216

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          20             25             30
Leu Ser Ser Pro Gly Phe Ser Leu Phe Tyr Leu Val Ile Leu Val
          35             40             45
Leu Ser Ala Val His Val Ile Val Cys Thr Ser Ala Glu Ser Ser Cys

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|   |     |     |
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| Tyr Phe Cys Gly Leu Ser Trp Leu Ala Ala Gly Gly Val Met Val Leu |     |     |
| 65  | 70  | 75  |
| Ala Ser Ala Leu Leu Cys Val Ile Val Ser Val Leu Thr Asn Val Leu |     | 80  |
|   | 85  | 90  |
| Val Gly Gly Asn Thr Pro Arg Lys Asn Pro Met His Pro Ser Ser Arg |     | 95  |
|   | 100 | 105 |
| Trp Ser Glu Leu Asp Leu Leu Ile Leu Leu Gly Thr Ala Gly His Val |     | 110 |
|   | 115 | 120 |
| Leu Ser Leu Gly Ala Ser Ser Phe Val Glu Glu Glu His Gln Thr Trp |     | 125 |
|   | 130 | 135 |
| Tyr Phe Leu Val Asn Thr Leu Cys Leu Ala Leu Ser Gln Glu Thr Tyr |     | 140 |
| 145   | 150 | 155 |
| Arg Asn Tyr Phe Leu Gly Asp Asp Gly Glu Pro Pro Cys Gly Leu Cys |     | 160 |
|   | 165 | 170 |
| Val Glu Gln Gly His Asp Gly Ala Thr Ala Ala Trp Gln Asp Gly Pro |     | 175 |
|   | 180 | 185 |
| Gly Cys Asp Ile Leu Glu Arg Asp Lys Gly His Gly Ser Pro Ser Thr |     | 190 |
|   | 195 | 200 |
| Ser Glu Val Leu Arg Gly Arg Glu Lys Trp Met Val Leu Ala Ser Pro |     | 205 |
|   | 210 | 215 |
| Trp Leu Ile Leu Ala Cys Cys Arg Leu Leu Arg Ser Leu Asn Gln Thr |     | 220 |
| 225   | 230 | 235 |
| Gly Val Gln Trp Ala His Arg Pro Asp Leu Gly His Trp Leu Thr Ser |     | 240 |
|   | 245 | 250 |
| Ser Asp His Lys Ala Glu Leu Ser Val Leu Ala Ala Leu Ser Leu Leu |     | 255 |
|   | 260 | 265 |
| Val Val Phe Val Leu Val Gln Arg Gly Cys Ser Pro Val Ser Lys Ala |     | 270 |
|   | 275 | 280 |
| Ala Leu Ala Leu Gly Leu Leu Gly Val Tyr Cys Tyr Arg Ala Ala Ile |     | 285 |
|   | 290 | 295 |
| Gly Ser Val Arg Phe Pro Trp Arg Pro Asp Ser Lys Asp Ile Ser Lys |     | 300 |
| 305   | 310 | 315 |
| Gly Ile Ile Glu Ala Arg Phe Val Tyr Val Phe Val Leu Gly Ile Leu |     | 320 |
|   | 325 | 330 |
| Phe Thr Gly Thr Lys Asp Leu Leu Lys Ser Gln Val Ile Ala Ala Asp |     | 335 |
|   | 340 | 345 |
| Phe Lys Leu Lys Thr Val Gly Leu Trp Glu Ile Tyr Ser Gly Leu Val |     | 350 |
|   | 355 | 360 |
| Leu Leu Ala Ala Leu Leu Phe Arg Pro His Asn Leu Pro Val Leu Ala |     | 365 |
|   | 370 | 375 |
| Phe Ser Leu Leu Ile Gln Thr Leu Met Thr Lys Phe Ile Trp Lys Pro |     | 380 |
| 385   | 390 | 395 |
| Leu Arg His Asp Ala Ala Glu Ile Thr Val Met His Tyr Trp Phe Gly |     | 400 |
|   | 405 | 410 |
| Gln Ala Phe Phe Tyr Phe Gln Gly Asn Ser Asn Asn Ile Ala Thr Val |     | 415 |
|   | 420 | 425 |
| Asp Ile Ser Ala Gly Phe Val Gly Leu Asp Thr Tyr Val Glu Ile Pro |     | 430 |

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435 440 445  
Ala Val Leu Leu Thr Ala Phe Gly Thr Tyr Ala Gly Pro Val Leu Trp  
450 455 460  
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465 470 475 480  
Ala Leu Ser His Ala Cys Phe Cys Tyr Ala Leu Ile Cys Ser Ile Pro  
485 490 495  
Val Phe Thr Tyr Ile Val Leu Val Thr Ser Leu Arg Tyr His Leu Phe  
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Ile Trp Ser Val Phe Ser Pro Lys Leu Leu Tyr Glu Gly Met His Leu  
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Arg Leu Thr Gln Ser  
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gtacaggtgt acaggtgtat cctgtggaag aagcgttgct taaagagtat attaagcgtc 600  
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 Val Gln Ala Leu Thr Thr Asn Leu Asn Leu Ile Leu Glu Ala Leu Lys  
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 85 90 95  
 Glu Pro Glu Lys Trp Pro Ile Pro Gly Pro Pro Pro Arg Ser Val Pro  
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 Pro Thr Asp Phe Ser Gln Leu Ile Asp Cys Pro Glu Phe Val Pro Gly  
 115 120 125  
 Gln Ala Phe Cys Ser His Thr Glu Ser Ala Pro Asn Ser Pro Arg Ile  
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 Gly Ser Pro Leu Ser Pro Lys Lys Asn Ser Glu Thr Ser Ile Leu Gln  
 145 150 155 160  
 Ala Met Ser Arg Gly Leu Ser Thr Ser Leu Pro Asp Leu Asp Ser Glu  
 165 170 175  
 Pro Trp Ile Glu Val Lys Lys Arg His Gln Pro Ala Pro Val Lys Leu  
 180 185 190  
 Arg Glu Ser Val Ser Val Pro Glu Gly Ser Leu Asn Gln Leu Cys Ser  
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 Ser Glu Glu Pro Glu Gln Glu Leu Asp Phe Leu Phe Asp Glu Glu  
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 Ile Glu Gln Ile Gly Arg Lys Asn Thr Phe Thr Asp Trp Ser Asp Asn  
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 Asp Ser Asp Tyr Glu Ile Asp Asp Gln Asp Leu Asn Lys Ile Leu Ile  
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|   | 260 |     | 265 |     | 270 |
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|   | 275 |     | 280 |     | 285 |
| Val Ile Asn Asp Gly Leu Tyr Tyr Tyr Glu Gln Asp Leu Trp Met Glu |     |     |     |     |     |
|   | 290 |     | 295 |     | 300 |
| Glu Asp Glu Asn Lys His Thr Ala Ile Lys Val Ile Val Ser Gly Gln |     |     |     |     |     |
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 <212> PRT  
 <213> Homo sapiens

<400> 11220

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| Met | Ile | Ala | Lys | Asp | Lys | Asp | Thr | Leu | Asp | Phe | Ile | Arg | Asn | Leu | Cys |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gln | Lys | Arg | His | Val | Cys | Ile | Gln | Ser | Ser | Leu | Ala | Lys | Val | Ser | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Lys | Val | Asn | Glu | Lys | Asp | Val | Asp | Lys | Phe | Leu | Leu | Tyr | Gln | His |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Ser | Cys | Asn | Ile | Arg | Asn | Ile | His | His | His | Gln | Ile | Leu | Ala | Ile |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asn | Arg | Gly | Glu | Asn | Leu | Lys | Val | Leu | Thr | Val | Lys | Val | Asn | Ile | Ser |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Asp | Gly | Val | Lys | Asp | Glu | Phe | Cys | Arg | Trp | Cys | Ile | Gln | Asn | Arg | Trp |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Arg | Pro | Arg | Ser | Phe | Ala | Arg | Pro | Glu | Leu | Met | Lys | Ile | Leu | Tyr | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Leu | Asn | Asp | Ser | Phe | Lys | Arg | Leu | Ile | Tyr | Pro | Leu | Leu | Cys | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Phe | Arg | Ala | Lys | Leu | Thr | Ser | Asp | Ala | Glu | Lys | Glu | Ser | Val | Met |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Met | Phe | Gly | Arg | Asn | Leu | Arg | Gln | Leu | Leu | Leu | Thr | Ser | Pro | Val | Pro |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gly | Arg | Thr | Leu | Met | Gly | Val | Asp | Pro | Gly | Tyr | Lys | His | Gly | Cys | Lys |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Leu | Ala | Ile | Ile | Ser | Pro | Thr | Ser | Gln | Ile | Leu | His | Thr | Asp | Val | Val |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Tyr | Leu | His | Cys | Gly | Gln | Gly | Phe | Arg | Glu | Ala | Glu | Lys | Ile | Lys | Thr |

|   |     |     |
|---|-----|-----|
| 195   | 200 | 205 |
| Leu Leu Leu Asn Phe Asn Cys Ser Thr Val Val Ile Gly Ser Gly Thr |     |     |
| 210   | 215 | 220 |
| Ala Cys Arg Glu Thr Glu Ala Tyr Phe Ala Asp Leu Ile Met Lys Asn |     |     |
| 225   | 230 | 235 |
| Tyr Phe Ala Pro Leu Asp Val Val Tyr Cys Ile Val Ser Glu Ala Gly |     |     |
| 245   | 250 | 255 |
| Ala Ser Ile Tyr Ser Val Ser Pro Glu Ala Asn Lys Glu Met Pro Gly |     |     |
| 260   | 265 | 270 |
| Leu Asp Pro Asn Leu Arg Ser Ala Val Ser Ile Ala Arg Arg Val Gln |     |     |
| 275   | 280 | 285 |
| Asp Pro Leu Ala Glu Leu Val Lys Ile Glu Pro Lys His Ile Gly Val |     |     |
| 290   | 295 | 300 |
| Gly Met Tyr Gln His Asp Val Ser Gln Thr Leu Leu Lys Ala Thr Leu |     |     |
| 305   | 310 | 315 |
| Asp Ser Val Val Glu Glu Cys Val Ser Phe Val Gly Val Asp Ile Asn |     |     |
| 325   | 330 | 335 |
| Ile Cys Ser Glu Val Leu Leu Arg His Ile Ala Gly Leu Asn Ala Asn |     |     |
| 340   | 345 | 350 |
| Arg Ala Lys Asn Ile Ile Glu Trp Arg Glu Lys Asn Gly Pro Phe Ile |     |     |
| 355   | 360 | 365 |
| Asn Arg Glu Gln Leu Lys Lys Val Lys Gly Leu Gly Pro Lys Ser Phe |     |     |
| 370   | 375 | 380 |
| Gln Gln Cys Ala Gly Phe Ile Arg Ile Asn Gln Asp Tyr Ile Arg Thr |     |     |
| 385   | 390 | 395 |
| Phe Cys Ser Gln Gln Thr Glu Thr Ser Gly Gln Ile Gln Gly Val Ala |     |     |
| 405   | 410 | 415 |
| Val Thr Ser Pro Ala Asp Val Glu Val Thr Asn Glu Lys Gln Gly Lys |     |     |
| 420   | 425 | 430 |
| Lys Lys Ser Lys Thr Ala Val Asn Val Leu Leu Lys Pro Asn Pro Leu |     |     |
| 435   | 440 | 445 |
| Asp Gln Thr Cys Ile His Pro Glu Ser Tyr Asp Ile Ala Met Arg Phe |     |     |
| 450   | 455 | 460 |
| Leu Ser Ser Ile Gly Gly Thr Leu Tyr Glu Val Gly Lys Pro Glu Met |     |     |
| 465   | 470 | 475 |
| Gln Gln Lys Ile Asn Ser Phe Leu Glu Lys Glu Gly Met Glu Lys Ile |     |     |
| 485   | 490 | 495 |
| Ala Glu Arg Leu Gln Thr Thr Val His Thr Leu Gln Val Ile Ile Asp |     |     |
| 500   | 505 | 510 |
| Gly Leu Ser Gln Pro Glu Ser Phe Asp Phe Arg Thr Asp Phe Asp Lys |     |     |
| 515   | 520 | 525 |
| Pro Asp Phe Lys Arg Ser Ile Val Cys Leu Glu Asp Leu Gln Ile Gly |     |     |
| 530   | 535 | 540 |
| Thr Val Leu Thr Gly Lys Val Glu Asn Ala Thr Leu Phe Gly Ile Phe |     |     |
| 545   | 550 | 555 |
| Val Asp Ile Gly Val Gly Lys Ser Gly Leu Ile Pro Ile Arg Asn Val |     |     |
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| Thr Glu Ala Lys Leu Ser Lys Thr Lys Lys Arg Arg Ser Leu Gly Leu |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|     |     |     | 580 |     |     |     |     |     | 585 |     |     |     |     | 590 |     |  |  |
| Gly | Pro | Gly | Glu | Arg | Val | Glu | Val | Gln | Val | Leu | Asn | Ile | Asp | Ile | Pro |  |  |
|     |     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |  |  |
| Arg | Ser | Arg | Ile | Thr | Leu | Asp | Leu | Ile | Arg | Val | Leu |     |     |     |     |  |  |
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<212> DNA  
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| Met | Gln | Lys | Glu | Ile | Phe | Glu | Gln | Pro | Glu | Ser | Val | Phe | Asn | Thr | Met |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Gly | Arg | Val | Asn | Phe | Glu | Thr | Asn | Thr | Val | Leu | Leu | Gly | Gly | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Lys | Asp | His | Leu | Lys | Glu | Ile | Arg | Arg | Cys | Arg | Arg | Leu | Ile | Val | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Cys | Gly | Thr | Ser | Tyr | His | Ala | Ala | Val | Ala | Thr | Arg | Gln | Val | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Glu | Leu | Thr | Glu | Leu | Pro | Val | Met | Val | Glu | Leu | Ala | Ser | Asp | Phe |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Leu | Asp | Arg | Asn | Thr | Pro | Val | Phe | Arg | Asp | Asp | Val | Cys | Phe | Phe | Ile |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Gln | Ser | Gly | Glu | Thr | Ala | Asp | Thr | Leu | Leu | Ala | Leu | Arg | Tyr | Cys |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Lys | Asp | Arg | Gly | Ala | Leu | Thr | Val | Gly | Val | Thr | Asn | Thr | Val | Gly | Ser |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Lys | Glu | Val | Leu | Ser | Leu | Glu | Glu | Lys | Ile | His | Asp | Leu | Ala | Leu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Pro | Cys | Phe | Ala | Lys | Cys | Gln | Asn | Ala | Leu | Gln | Gln | Val | Thr | Ala | Arg |
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| Leu | Arg | Asn | Leu | Leu | Pro | Tyr | Ser | Leu | Arg | Tyr | Leu | Leu | Glu | Gly | Thr |
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| Ala | Glu | Thr | His | Glu | Leu | Ala | Glu | Gly | Ser | Thr | Ala | Asp | Val | Leu | His |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
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| Pro | Ala | Leu | Ile | Met | Asn | His | Thr | Pro | Trp | Asp | Ile | Leu | Thr | Tyr | Lys |
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| Val | Thr | Ile | Thr | Gly | Ser | Pro | Val | Ser | Ile | Ala | Leu | Ala | Gln | Tyr | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ile | Thr | Ala | Cys | Leu | Glu | Thr | Ala | Lys | Ser | Thr | Ser | Gly | Gly | Thr | Pro |
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| Arg | Glu | Leu | Leu | Ala | Ser | Ala | Pro | Thr | Gly | Ser | Gly | Lys | Thr | Leu | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Phe | Ser | Ile | Pro | Ile | Leu | Met | Gln | Leu | Lys | Gln | Pro | Ala | Asn | Lys | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Arg | Ala | Leu | Ile | Ile | Ser | Pro | Thr | Arg | Glu | Leu | Ala | Ser | Gln | Ile |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| His | Arg | Glu | Leu | Ile | Lys | Ile | Ser | Glu | Gly | Thr | Gly | Phe | Arg | Ile | His |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Met | Ile | His | Lys | Ala | Ala | Val | Ala | Ala | Lys | Lys | Phe | Gly | Pro | Lys | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Lys | Lys | Phe | Asp | Ile | Leu | Val | Thr | Thr | Pro | Asn | Arg | Leu | Ile | Tyr |
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| Leu | Leu | Lys | Gln | Asp | Pro | Pro | Gly | Ile | Asp | Leu | Ala | Ser | Val | Glu | Trp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Val | Val | Asp | Glu | Ser | Asp | Lys | Leu | Phe | Glu | Asp | Gly | Lys | Thr | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Phe | Arg | Asp | Gln | Leu | Ala | Ser | Ile | Phe | Leu | Ala | Cys | Thr | Ser | His | Lys |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Arg | Arg | Ala | Met | Phe | Ser | Ala | Thr | Phe | Ala | Tyr | Asp | Val | Glu | Gln |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Trp | Cys | Lys | Leu | Asn | Leu | Asp | Asn | Val | Ile | Ser | Val | Ser | Ile | Gly | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Asn | Ser | Ala | Val | Glu | Thr | Val | Glu | Gln | Glu | Leu | Leu | Phe | Val | Gly |
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| Ser | Glu | Thr | Gly | Lys | Leu | Leu | Ala | Val | Arg | Glu | Leu | Val | Lys | Lys | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Leu | Phe | His | Glu | Leu | Ile | Tyr | Glu | Gly | Ile | Asn | Val | Asp | Val | Ile |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Arg | Ala | Gly | Lys | Ile | Trp | Val | Leu | Ile | Cys | Thr | Ala | Leu | Leu | Ala | Arg |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gly | Ile | Asp | Phe | Lys | Gly | Val | Asn | Leu | Val | Ile | Asn | Tyr | Asp | Phe | Pro |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Pro | Glu | Tyr | Ile | Lys | Gly | Phe | Gln | Lys | Leu | Leu | Ser | Lys | Gln | Lys | Lys |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Lys | Met | Ile | Lys | Lys | Pro | Leu | Glu | Arg | Glu | Ser | Ile | Ser | Thr | Thr | Pro |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Lys | Cys | Phe | Leu | Glu | Lys | Ala | Lys | Asp | Lys | Gln | Lys | Lys | Val | Thr | Gly |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Gln | Asn | Ser | Lys | Lys | Lys | Val | Ala | Leu | Glu | Asp | Lys | Ser |     |     |     |
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| Gln | Thr | Val | Glu | Ser | Leu | Pro | Asn | Leu | Gln | Glu | Val | Gly | Leu | His | Gly |
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| Asn | Pro | Ile | Arg | Cys | Asp | Cys | Val | Ile | Arg | Trp | Ala | Asn | Ala | Thr | Gly |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Arg | Val | Arg | Phe | Ile | Glu | Pro | Gln | Ser | Thr | Leu | Cys | Ala | Glu | Pro |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Asp | Leu | Gln | Arg | Leu | Pro | Val | Arg | Glu | Val | Pro | Phe | Arg | Glu | Met |
|     |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Thr | Asp | His | Cys | Leu | Pro | Leu | Ile | Ser | Pro | Arg | Ser | Phe | Pro | Pro | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Gln | Val | Ala | Ser | Gly | Glu | Ser | Met | Val | Leu | His | Cys | Arg | Ala | Leu |
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| Leu | Thr | Pro | Ala | His | Ala | Gly | Arg | Arg | Tyr | Arg | Val | Tyr | Pro | Glu | Gly |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Leu | Glu | Leu | Arg | Arg | Val | Thr | Ala | Glu | Glu | Ala | Gly | Leu | Tyr | Thr |
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| Cys | Val | Ala | Gln | Asn | Leu | Val | Gly | Ala | Asp | Thr | Lys | Thr | Val | Ser | Val |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Val | Gly | Arg | Ala | Leu | Leu | Gln | Pro | Gly | Arg | Asp | Glu | Gly | Gln | Gly |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Glu | Leu | Arg | Val | Gln | Glu | Thr | His | Pro | Tyr | His | Ile | Leu | Leu | Ser |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Trp | Val | Thr | Pro | Pro | Asn | Thr | Val | Ser | Thr | Asn | Leu | Thr | Trp | Ser | Ser |
|     |     |     | 210 |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ala | Ser | Ser | Leu | Arg | Gly | Gln | Gly | Ala | Thr | Ala | Leu | Ala | Arg | Leu | Pro |
|     |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Arg | Gly | Thr | His | Ser | Tyr | Asn | Ile | Thr | Arg | Leu | Leu | Gln | Ala | Thr | Glu |

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| Met | Lys | Pro | Leu | Arg | Met | Ala | Arg | Pro | Gly | Gly | Pro | Glu | His | Asn | Glu |
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| Tyr | Ala | Leu | Val | Ser | Ala | Trp | His | Ser | Ser | Gly | Ser | Tyr | Leu | Asp | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Gly | Leu | Arg | His | Gln | Asp | Asp | Phe | Asp | Val | Ser | Leu | Leu | Val | Cys |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| His | Cys | Ala | Ala | Pro | Phe | Glu | Glu | Gln | Gly | Glu | Ala | Glu | Arg | His | Val |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Leu | Arg | Leu | Gln | Phe | Phe | Val | Val | Leu | Thr | Ser | Gln | Arg | Glu | Leu | Phe |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Pro | Arg | Leu | Thr | Ala | Asp | Met | Arg | Arg | Phe | Arg | Lys | Pro | Pro | Arg | Leu |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Pro | Pro | Glu | Pro | Glu | Ala | Pro | Gly | Ser | Ser | Ala | Gly | Ser | Pro | Gly | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Ser | Gly | Leu | Ile | Leu | Ala | Pro | Gly | Pro | Ala | Pro | Leu | Phe | Pro | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Ala | Ala | Glu | Val | Gly | Met | Ala | Arg | Ala | Arg | Leu | Ala | Gln | Leu | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Arg | Leu | Ala | Gly | Gly | His | Cys | Arg | Arg | Asp | Thr | Leu | Trp | Lys | Arg | Leu |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Phe | Leu | Leu | Glu | Pro | Gly | Pro | Asp | Arg | Leu | Arg | Leu | Gly | Gly | Arg |     |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Leu | Ala | Leu | Ala | Glu | Leu | Glu | Glu | Leu | Glu | Ala | Val | His | Ala | Lys |     |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Ser | Ile | Gly | Asp | Ile | Asp | Pro | Gln | Leu | Asp | Cys | Ser | Tyr | Pro |     |     |

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<213> Homo sapiens

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| Glu | Ile | Leu | Asp | Ala | Asp | Gly | Ile | Cys | Ser | Pro | Gly | Glu | Lys | Val | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Lys | Gln | Val | Leu | Val | Asn | Lys | Ser | Met | Pro | Thr | Val | Thr | Gln | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Leu | Glu | Gly | Ser | Asn | Val | Pro | Gln | Gln | Pro | Gln | Tyr | Lys | Asp | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Ile | Thr | Tyr | Lys | Gly | Ala | Thr | Asp | Ser | Tyr | Ile | Glu | Lys | Val | Met |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Ser | Ser | Asn | Ala | Glu | Asp | Ala | Phe | Leu | Ile | Lys | Met | Leu | Leu | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gln | Thr | Arg | Arg | Pro | Glu | Ile | Gly | Asp | Lys | Phe | Ser | Ser | Arg | His | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Lys | Gly | Val | Cys | Gly | Leu | Ile | Val | Pro | Gln | Glu | Asp | Met | Pro | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Cys | Asp | Ser | Gly | Ile | Cys | Pro | Asp | Ile | Ile | Met | Asn | Pro | His | Gly | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Pro | Ser | Arg | Met | Thr | Val | Gly | Lys | Leu | Ile | Glu | Leu | Leu | Ala | Gly | Lys |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ala | Gly | Val | Leu | Asp | Gly | Arg | Phe | His | Tyr | Gly | Thr | Ala | Phe | Gly | Gly |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Lys | Val | Lys | Asp | Val | Cys | Glu | Asp | Leu | Val | Arg | His | Gly | Tyr | Asn |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Tyr | Leu | Gly | Lys | Asp | Tyr | Val | Thr | Ser | Gly | Ile | Thr | Gly | Glu | Pro | Leu |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Glu | Ala | Tyr | Ile | Tyr | Phe | Gly | Pro | Val | Tyr | Tyr | Gln | Lys | Leu | Lys | His |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Met | Val | Leu | Asp | Lys | Met | His | Ala | Arg | Ala | Arg | Gly | Pro | Arg | Ala | Val |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Thr | Arg | Gln | Pro | Thr | Glu | Gly | Arg | Ser | Arg | Asp | Gly | Gly | Leu | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Gly | Glu | Met | Glu | Arg | Asp | Cys | Leu | Ile | Gly | Tyr | Gly | Ala | Ser | Met |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Leu | Leu | Glu | Arg | Leu | Met | Ile | Ser | Ser | Asp | Ala | Phe | Glu | Val | Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Val | Cys | Gly | Gln | Cys | Gly | Leu | Leu | Gly | Tyr | Ser | Gly | Trp | Cys | His | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Cys | Lys | Ser | Ser | Cys | His | Val | Ser | Ser | Leu | Arg | Ile | Pro | Tyr | Ala | Cys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Leu | Leu | Phe | Gln | Glu | Leu | Gln | Ser | Met | Asn | Ile | Ile | Pro | Arg | Leu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Lys | Leu | Ser | Lys | Tyr | Asn | Glu |     |     |     |     |     |     |     |     |     |
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115 120 125  
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145 150 155 160  
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225 230 235 240  
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Pro Asp Pro Val Pro Ser Pro Asp Pro Asn Pro Val Ser Cys Pro Asp  
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 Pro Ile Glu Val Ala Ile Asp Glu Met Ser Lys Lys Val Ser Glu Leu  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Asn | Gln | Leu | Cys | Thr | Met | Glu | Glu | Val | Asp | Met | Ile | Arg | Leu | Gln | Leu |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Lys | Leu | Gln | Gly | Ser | Val | Ser | Val | Lys | Val | Asn | Ala | Gly | Pro | Met | Ala |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Tyr | Ala | Arg | Ala | Phe | Leu | Glu | Glu | Thr | Asn | Ala | Lys | Lys | Tyr | Pro | Asp |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Asn | Gln | Val | Lys | Leu | Lys | Glu | Ile | Phe | Arg | Gln | Phe | Ala | Asp | Ala |     |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |
| Cys | Gly | Gln | Ala | Leu | Asp | Val | Asn | Glu | Arg | Leu | Ile | Lys | Glu | Asp | Gln |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Leu | Glu | Tyr | Gln | Glu | Glu | Leu | Arg | Ser | His | Tyr | Lys | Asp | Met | Leu | Ser |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Glu | Leu | Ser | Thr | Val | Met | Asn | Glu | Gln | Ile | Thr | Gly | Arg | Asp | Asp | Leu |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ser | Lys | Arg | Gly | Val | Asp | Gln | Thr | Cys | Thr | Arg | Val | Ile | Ser | Lys | Ala |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Thr | Pro | Ala | Leu | Pro | Thr | Val | Ser | Ile | Ser | Ser | Ser | Ala | Glu | Val |     |
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<400> 11248

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| ggctcagatt  | cttgcacttc | agaggcagac | agtgtcatta  | caagaacaga | ataccactct  | 240  |
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<400> 11249

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| Met | Asn | Gln | Asn | Ala | Gln | Leu | Leu | Ile | Gln | Gln | Ser | Ser | Leu | Glu | Asn |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Glu | Asn | Glu | Ser | Val | Ile | Lys | Glu | Arg | Glu | Asp | Leu | Lys | Ser | Leu | Tyr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Ser | Leu | Ile | Lys | Asp | His | Glu | Lys | Leu | Glu | Leu | Leu | His | Glu | Arg |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Gln | Ala | Ser | Glu | Tyr | Glu | Ser | Leu | Ile | Ser | Lys | His | Gly | Thr | Leu | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Ala | His | Lys | Asn | Leu | Glu | Val | Glu | His | Arg | Asp | Leu | Glu | Asp | Arg |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Tyr | Asn | Gln | Leu | Leu | Lys | Gln | Lys | Gly | Gln | Leu | Glu | Asp | Leu | Glu | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
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| Glu | Thr | Val | Ala | Ala | Glu | Tyr | Lys | Lys | Leu | Cys | Gly | Glu | Asn | Asp | Arg |
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| Thr | Asp | His | Lys | Asn | Leu | Lys | Ser | Leu | Leu | Asn | Asn | Ser | Lys | Leu | Glu |

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| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |
| Ser | Gln | Leu | Lys | Gly | Asn | Leu | Glu | Glu | Glu | Asn | Arg | His | Leu | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     | Asp |
| Gln | Ile | Gln | Thr | Leu | Met | Leu | Gln | Asn | Arg | Thr | Leu | Leu | Glu | Gln |
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| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     | 240 |
| Lys | Leu | Asn | Glu | Leu | Arg | Arg | Gln | Lys | Glu | Lys | Leu | Glu | Glu | Lys |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |
| Met | Asp | Gln | Tyr | Lys | Phe | Tyr | Asp | Pro | Ser | Pro | Pro | Arg | Arg | Arg |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     | Gly |
| Asn | Trp | Ile | Thr | Leu | Lys | Met | Arg | Lys | Leu | Ile | Lys | Ser | Lys | Lys |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     | Asp |
| Ile | Asn | Arg | Glu | Arg | Gln | Lys | Ser | Leu | Thr | Leu | Thr | Pro | Thr | Arg |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     | Ser |
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| Ala | Gly | Gln | Trp | Thr | Gly | Ser | Thr | Glu | Asn | Leu | Glu | Val | Pro | Asp |
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| Ser | Lys | Gln | Leu | Val | Asn | Asn | Lys | Asp | Thr | Thr | Ser | Phe | Glu | Asp |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | Ile |
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| Ser | Asn | Asn | Asn | Ala | Ser | Leu | His | Glu | Val | Lys | Ala | Gly | Ala | Val |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     | Asn |
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| His | Asp | His | Glu | Ala | Trp | Ser | Ser | Ser | Gly | Ser | Ser | Pro | Ile | Gln |
|     |     |     | 485 |     |     |     |     |     | 490 |     |     |     |     | Tyr |
| Leu | Lys | Arg | Gln | Thr | Arg | Ser | Ser | Pro | Val | Leu | Gln | His | Lys | Ile |
|     |     | 500 |     |     |     |     |     | 505 |     |     |     |     | 510 | Ser |
| Glu | Thr | Leu | Glu | Ser | Arg | His | His | Lys | Ile | Lys | Thr | Gly | Ser | Pro |
|     | 515 |     |     |     |     | 520 |     |     |     |     |     | 525 |     | Gly |
| Ser | Glu | Val | Val | Thr | Leu | Gln | Gln | Phe | Leu | Glu | Glu | Ser | Asn | Lys |
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| Val Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys Asp Lys |     |     |     | 560 |
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| Pro Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr Pro Gly |     |     |     |     |
|   | 580 |     | 585 | 590 |
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|   | 595 |     | 600 | 605 |
| Pro Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly Lys Pro |     |     |     |     |
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| Met | Glu | Glu | Ser | Glu | Pro | Glu | Arg | Lys | Arg | Ala | Arg | Thr | Asp | Glu | Val | 1   | 5   | 10  | 15  |
| Pro | Ala | Gly | Gly | Ser | Arg | Ser | Glu | Ala | Glu | Asp | Glu | Asp | Asp | Glu | Asp | 20  | 25  | 30  |     |
| Tyr | Val | Pro | Tyr | Val | Pro | Leu | Arg | Gln | Arg | Arg | Gln | Leu | Leu | Leu | Gln | 35  | 40  | 45  |     |
| Lys | Leu | Leu | Gln | Arg | Arg | Arg | Glu | Gly | Ala | Ala | Glu | Glu | Glu | Gln | Gln | 50  | 55  | 60  |     |
| Asp | Ser | Gly | Ser | Glu | Pro | Arg | Gly | Asp | Glu | Asp | Asp | Ile | Pro | Leu | Gly | 65  | 70  | 75  | 80  |
| Pro | Gln | Ser | Asn | Val | Ser | Leu | Leu | Asp | Gln | His | Gln | His | Leu | Lys | Glu | 85  | 90  | 95  |     |
| Lys | Ala | Glu | Ala | Arg | Lys | Glu | Ser | Ala | Lys | Glu | Lys | Gln | Leu | Lys | Glu | 100 | 105 | 110 |     |
| Glu | Glu | Lys | Ile | Leu | Glu | Ser | Val | Ala | Glu | Gly | Arg | Ala | Leu | Met | Ser | 115 | 120 | 125 |     |
| Val | Lys | Glu | Met | Ala | Lys | Gly | Ile | Thr | Tyr | Asp | Asp | Pro | Ile | Lys | Thr | 130 | 135 | 140 |     |
| Ser | Trp | Thr | Pro | Pro | Arg | Tyr | Val | Leu | Ser | Met | Ser | Glu | Glu | Arg | His | 145 | 150 | 155 | 160 |
| Glu | Arg | Val | Arg | Lys | Tyr | His | Ile | Leu | Val | Glu | Gly | Asp | Gly | Ile | 165 | 170 | 175 |     |     |
| Pro | Pro | Pro | Ile | Lys | Ser | Phe | Lys | Glu | Met | Lys | Phe | Pro | Ala | Thr | Ile | 180 | 185 | 190 |     |
| Leu | Arg | Gly | Leu | Lys | Lys | Lys | Gly | Ile | His | His | Pro | Thr | Pro | Ile | Gln | 195 | 200 | 205 |     |
| Ile | Gln | Gly | Ile | Pro | Thr | Ile | Leu | Ser | Gly | Arg | Asp | Met | Ile | Gly | Ile | 210 | 215 | 220 |     |

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|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
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| Thr | His | Gly | Ile | Leu | Glu | Tyr | Tyr | Cys | Arg | Leu | Leu | Gln | Glu | Asp | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ser | Pro | Leu | Leu | Arg | Cys | Ala | Leu | Cys | Ile | Gly | Gly | Met | Ser | Val | Lys |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ile | Cys | Arg | Tyr | Leu | Ala | Leu | Asp | Glu | Ala | Asp | Arg | Met | Ile | Asp | Thr |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Gly | Phe | Glu | Gly | Asp | Ile | Arg | Thr | Ile | Phe | Ser | Tyr | Phe | Lys | Gly | Gln |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Arg | Gln | Thr | Leu | Leu | Phe | Ser | Ala | Thr | Met | Pro | Lys | Lys | Ile | Gln | Asn |
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| Phe | Ala | Lys | Ser | Ala | Leu | Val | Lys | Pro | Val | Thr | Ile | Asn | Val | Gly | Arg |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Glu | Glu | Ala | Lys | Met | Val | Tyr | Leu | Leu | Glu | Cys | Leu | Gln | Lys | Thr | Pro |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Pro | Pro | Val | Leu | Ile | Phe | Ala | Glu | Lys | Lys | Ala | Asp | Val | Asp | Ala | Ile |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |
| His | Glu | Tyr | Leu | Leu | Leu | Lys | Gly | Val | Glu | Ala | Val | Ala | Ile | His | Gly |
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| Ile | Glu | Asn | Tyr | Val | His | Arg | Ile | Gly | Arg | Thr | Gly | Arg | Ser | Gly | Asn |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Thr | Gly | Ile | Ala | Thr | Thr | Phe | Ile | Asn | Lys | Ala | Cys | Asp | Glu | Ser | Val |
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|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |
| Gly | Gly | Glu | Arg | Gly | Cys | Ala | Phe | Cys | Gly | Gly | Leu | Gly | His | Arg | Ile |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
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| Met | Thr | Pro | Asn | Cys | Gln | Tyr | Arg | Pro | Gln | Ser | Val | Pro | Pro | His | His |
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| Asn | Lys | Leu | Glu | Gln | His | Gln | Val | Tyr | Gly | Ala | Arg | Ser | Glu | Pro | Pro |
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|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Ser | Gly | His | His | Ser | Lys | Pro | Cys | Ser | Arg | Val | Glu | Tyr | Val | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Leu | Ser | Ser | Ser | Val | Arg | Asn | Thr | Cys | Tyr | Pro | Glu | Asp | Ile | Pro |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Pro | Tyr | Pro | Thr | Ile | Arg | Arg | Val | Gln | Ser | Leu | His | Ala | Pro | Pro | Ser |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Ser | Met | Ile | Arg | Ser | Val | Pro | Ile | Ser | Arg | Thr | Glu | Val | Pro | Pro | Asp |
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| Asp | Glu | Pro | Ala | Tyr | Cys | Pro | Arg | Pro | Leu | Tyr | Gln | Tyr | Lys | Pro | Tyr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Ser | Ser | Gln | Ala | Arg | Ser | Asp | Tyr | His | Val | Thr | Gln | Leu | Gln | Pro |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     | 175 |     |     |
| Ala | Tyr | Gly | Thr | Val | Gln | Leu | Arg | Pro | Leu | His | Arg | Leu | Pro | Asn | Arg |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Phe | Ala | Phe | Tyr | Asn | Pro | Arg | Leu | Gln | Gly | Lys | Ser | Leu | Tyr | Ser |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Tyr | Ala | Gly | Leu | Ala | Pro | Arg | Pro | Arg | Ala | Asn | Val | Thr | Gly | Tyr | Phe |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | Pro | Asn | Asp | His | Asn | Val | Val | Ser | Met | Pro | Pro | Ala | Ala | Asp | Val |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Lys | His | Thr | Tyr | Thr | Ser | Trp | Asp | Leu | Glu | Asp | Met | Glu | Lys | Tyr | Arg |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 |     |     |
| Met | Gln | Ser | Ile | Arg | Arg | Glu | Ser | Arg | Ala | Arg | Gln | Lys | Val | Lys | Gly |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Pro | Val | Met | Ser | Gln | Tyr | Asp | Asn | Met | Thr | Pro | Ala | Val | Gln | Asp | Asp |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Leu | Gly | Gly | Ile | Tyr | Val | Ile | His | Leu | Arg | Ser | Lys | Ser | Asp | Pro | Gly |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Lys | Thr | Gly | Leu | Leu | Ser | Val | Ala | Glu | Gly | Lys | Glu | Ser | Arg | His | Ala |
|     | 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
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| Pro | Glu | Ala | Glu | Met | Asp | Arg | Ala | His | His | Gly | Gly | His | Gly | Ser |     |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |
| Thr | Gln | Pro | Glu | Lys | Pro | Ser | Leu | Pro | Gln | Lys | Gln | Ser | Ser | Leu | Arg |

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|     | 355 |     | 360 |     | 365 |     |     |     |     |     |     |     |     |     |     |
| Ser | Arg | Lys | Leu | Pro | Asp | Met | Gly | Cys | Ser | Leu | Pro | Glu | His | Arg | Ala |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| His | Gln | Glu | Ala | Ser | His | Arg | Gln | Phe | Cys | Glu | Ser | Lys | Asn | Gly | Pro |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
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|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Pro | Asp | Thr | Ser | Glu | Pro | Val | Ser | Tyr | His | Asn | Ser | Gly | Val | Lys | Tyr |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Ala | Ala | Ser | Gly | Gln | Glu | Ser | Leu | Arg | Leu | Asn | His | Lys | Glu | Val | Arg |
|     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |
| Leu | Ser | Lys | Glu | Met | Glu | Arg | Pro | Trp | Val | Arg | Gln | Pro | Ser | Ala | Pro |
| 450 |     |     |     |     | 455 |     |     |     |     |     | 460 |     |     |     |     |
| Glu | Lys | His | Ser | Arg | Asp | Cys | Tyr | Lys | Glu | Glu | Glu | His | Leu | Thr | Gln |
| 465 |     |     |     |     | 470 |     |     |     | 475 |     |     |     |     |     | 480 |
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|     |     |     | 485 |     |     |     |     |     | 490 |     |     |     |     | 495 |     |
| His | His | Thr | Gln | Asn | Val | Glu | Arg | Asp | Pro | Ser | Val | Leu | Tyr | Gln | Tyr |
|     |     | 500 |     |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Gln | Pro | His | Gly | Lys | Arg | Gln | Ser | Ser | Val | Thr | Val | Val | Ser | Gln | Tyr |
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| Phe | Gly | Gly | Gly | Gly | Met | Gly | Thr | Tyr | Val | Pro | Pro | Gly | Phe | Pro | His |
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|     |     |     | 565 |     |     |     |     | 570 |     |     |     |     |     | 575 |     |
| Pro | Ala | Glu | Leu | Ser | Leu | Gln | His | Pro | Glu | Thr | Gln | Ile | His | Ala | Glu |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Arg | Ile | Cys | Ala | Phe | Leu | Trp | Arg | Lys | Trp | Leu | Gly | Gln | Trp | Ala |     |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Lys | Gln | Leu | Cys | Val | Ile | Lys | Asp | Asn | Arg | Leu | Leu | Cys | Tyr | Lys | Ser |
|     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Ser | Lys | Asp | His | Ser | Pro | Gln | Leu | Asp | Val | Asn | Leu | Leu | Gly | Ser | Ser |
|     |     | 210 |     |     | 215 |     |     |     |     | 220 |     |     |     |     |     |
| Val | Ile | His | Lys | Glu | Lys | Gln | Val | Arg | Lys | Lys | Glu | His | Lys | Leu | Lys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ile | Thr | Pro | Met | Asn | Ala | Asp | Val | Ile | Val | Leu | Gly | Leu | Gln | Ser | Lys |
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| Asp | Gln | Ala | Glu | Gln | Trp | Leu | Arg | Val | Ile | Gln | Glu | Val | Ser | Gly | Leu |
|     |     |     | 260 |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Pro | Ser | Glu | Gly | Ala | Ser | Glu | Gly | Asn | Gln | Tyr | Thr | Pro | Asp | Ala | Gln |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Arg | Phe | Asn | Cys | Gln | Lys | Pro | Asp | Ile | Ala | Glu | Lys | Tyr | Leu | Ser | Ala |
|     |     | 290 |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Ser | Glu | Tyr | Gly | Ser | Ser | Val | Asp | Gly | His | Pro | Glu | Val | Pro | Glu | Thr |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Lys | Asp | Val | Lys | Lys | Lys | Cys | Ser | Ala | Gly | Leu | Lys | Leu | Ser | Asn | Leu |
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| Ser | Leu | Glu | Thr | Ser | Ser | Tyr | Leu | Asn | Val | Leu | Val | Asn | Ser | Gln | Trp |
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| Lys | Ser | Arg | Trp | Cys | Ser | Val | Arg | Asp | Asn | His | Leu | His | Phe | Tyr | Gln |
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| Asp | Arg | Asn | Arg | Ser | Lys | Val | Ala | Gln | Gln | Pro | Leu | Ser | Leu | Val | Gly |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ile | Leu | His | Lys | Gly | Glu | Glu | Leu | Ala | Lys | Leu | Glu | Ala | Lys | Ser | Ser |
|     |     |     | 420 |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| Glu | Glu | Met | Gly | His | Trp | Leu | Gly | Leu | Leu | Leu | Ser | Glu | Ser | Gly | Ser |
|     |     | 435 |     |     |     | 440 |     |     |     |     |     | 445 |     |     |     |
| Lys | Thr | Asp | Pro | Glu | Glu | Phe | Thr | Tyr | Asp | Tyr | Val | Asp | Ala | Asp | Arg |
|     | 450 |     |     |     | 455 |     |     |     |     |     | 460 |     |     |     |     |
| Val | Ser | Cys | Ile | Val | Ser | Ala | Ala | Lys | Asn | Ser | Leu | Leu | Leu | Met | Gln |
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<210> 11258

<211> 418

<212> PRT

<213> Homo sapiens

<400> 11258

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Ser Leu Thr Ser Pro Gly Ala Tyr Ala Gly Leu His Asn Ile Pro Pro
          35             40             45
Gln Met Ser Ala Ala Ala Ala Ala Ala Ala Ala Tyr Gly Arg Ser
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Pro Met Val Gly Phe Asp Pro His Pro Pro Met Arg Ala Thr Gly Leu
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-4720/13211-

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100 105 110  
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115 120 125  
Leu Ser His Gly Glu Val Val Cys Ala Val Thr Ile Ser Asn Pro Thr  
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Arg His Val Tyr Thr Gly Gly Lys Gly Cys Val Lys Ile Trp Asp Ile  
145 150 155 160  
Ser Gln Pro Gly Ser Lys Ser Pro Ile Ser Gln Leu Asp Cys Leu Asn  
165 170 175  
Arg Asp Asn Tyr Ile Arg Ser Cys Lys Leu Leu Pro Asp Gly Arg Thr  
180 185 190  
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195 200 205  
Ser Pro Thr Pro Arg Ile Lys Ala Glu Leu Thr Ser Ser Ala Pro Ala  
210 215 220  
Cys Tyr Ala Leu Ala Ile Ser Pro Asp Ala Lys Val Cys Phe Ser Cys  
225 230 235 240  
Cys Ser Asp Gly Asn Ile Ala Val Trp Asp Leu His Asn Gln Thr Leu  
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Val Arg Gln Phe Gln Gly His Thr Asp Gly Ala Ser Cys Ile Asp Ile  
260 265 270  
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Arg Ser Trp Asp Leu Arg Glu Gly Arg Gln Leu Gln Gln His Asp Phe  
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Thr Ser Gln Ile Phe Ser Leu Gly Tyr Cys Pro Thr Gly Glu Trp Leu  
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<210> 11259

<211> 2024

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<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (32).. (850)

<400> 11259

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<210> 11260  
<211> 273  
<212> PRT  
<213> Homo sapiens

09629469.072800



-4722/13211-

<400> 11260

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Pro Asp Val Lys Gly Arg Thr Glu Ile Leu Lys Trp Tyr Leu Asn Lys  
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145 150 155 160  
Glu Phe Ser Lys Asp Lys Ile Leu Met Gly Pro Glu Arg Arg Ser Val  
165 170 175  
Glu Ile Asp Asn Lys Asn Lys Thr Ile Thr Ala Tyr His Glu Ser Gly  
180 185 190  
His Ala Ile Ile Ala Tyr Tyr Thr Lys Asp Ala Met Pro Ile Asn Lys  
195 200 205  
Ala Thr Ile Met Pro Arg Gly Pro Thr Leu Gly His Val Ser Leu Leu  
210 215 220  
Pro Glu Asn Asp Gly Trp Asn Glu Ile Glu Pro Ser Cys Leu His Lys  
225 230 235 240  
Trp Met Leu Val Trp Glu Glu Glu Trp Gln Arg Ser Leu Tyr Leu Glu  
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<210> 11261

<211> 1827

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (137)..(1393)

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<400> 11261

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<210> 11262

<211> 419

<212> PRT

<213> Homo sapiens

<400> 11262

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Thr Leu Val Gln Gly Leu Asn Glu Ala Gly Asp Asp Leu Glu Ala Val
      35            40            45
Ala Lys Phe Leu Asp Ser Thr Gly Ser Arg Leu Asp Tyr Arg Arg Tyr

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| 65  | 70  | 75  | 80  |
| Gly Gly Thr Arg Ile Asp Asp Gly Asp Lys Thr Lys Met Thr Asn His |     |     |     |
|   | 85  | 90  | 95  |
| Cys Val Phe Ser Ala Asn Glu Asp His Glu Thr Ile Arg Asn Tyr Ala |     |     |     |
|   | 100 | 105 | 110 |
| Gln Val Phe Asn Lys Leu Ile Arg Arg Tyr Lys Tyr Leu Glu Lys Ala |     |     |     |
|   | 115 | 120 | 125 |
| Phe Glu Asp Glu Met Lys Lys Leu Leu Leu Phe Leu Lys Ala Phe Ser |     |     |     |
|   | 130 | 135 | 140 |
| Glu Thr Glu Gln Thr Lys Leu Ala Met Leu Ser Gly Ile Leu Leu Gly |     |     |     |
|   | 145 | 150 | 155 |
| Asn Gly Thr Leu Pro Ala Thr Ile Leu Thr Ser Leu Phe Thr Asp Ser |     |     |     |
|   | 165 | 170 | 175 |
| Leu Val Lys Glu Gly Ile Ala Ala Ser Phe Ala Val Lys Leu Phe Lys |     |     |     |
|   | 180 | 185 | 190 |
| Ala Trp Met Ala Glu Lys Asp Ala Asn Ser Val Thr Ser Ser Leu Arg |     |     |     |
|   | 195 | 200 | 205 |
| Arg Ala Asn Leu Asp Lys Arg Leu Leu Glu Leu Phe Pro Val Asn Arg |     |     |     |
|   | 210 | 215 | 220 |
| Gln Ser Val Asp His Phe Ala Lys Tyr Phe Thr Asp Ala Gly Leu Lys |     |     |     |
|   | 225 | 230 | 235 |
| Glu Leu Ser Asp Phe Leu Arg Val Gln Gln Ser Leu Gly Thr Arg Lys |     |     |     |
|   | 245 | 250 | 255 |
| Glu Leu Gln Lys Glu Leu Gln Glu Arg Leu Ser Gln Glu Cys Pro Ile |     |     |     |
|   | 260 | 265 | 270 |
| Lys Glu Val Val Leu Tyr Val Lys Glu Glu Met Lys Arg Asn Asp Leu |     |     |     |
|   | 275 | 280 | 285 |
| Pro Glu Thr Ala Val Ile Gly Leu Leu Trp Thr Cys Ile Met Asn Ala |     |     |     |
|   | 290 | 295 | 300 |
| Val Glu Trp Asn Lys Lys Glu Glu Leu Val Ala Glu Gln Ala Leu Lys |     |     |     |
|   | 305 | 310 | 315 |
| His Leu Lys Gln Tyr Ala Pro Leu Leu Ala Val Phe Ser Ser Gln Gly |     |     |     |
|   | 325 | 330 | 335 |
| Gln Ser Glu Leu Ile Leu Leu Gln Lys Val Gln Glu Tyr Cys Tyr Asp |     |     |     |
|   | 340 | 345 | 350 |
| Asn Ile His Phe Met Lys Ala Phe Gln Lys Ile Val Val Leu Phe Tyr |     |     |     |
|   | 355 | 360 | 365 |
| Lys Ala Asp Val Leu Ser Glu Glu Ala Ile Leu Lys Trp Tyr Lys Glu |     |     |     |
|   | 370 | 375 | 380 |
| Ala His Val Ala Lys Gly Lys Ser Val Phe Leu Asp Gln Met Lys Lys |     |     |     |
|   | 385 | 390 | 395 |
| Phe Val Glu Trp Leu Gln Asn Ala Glu Glu Glu Ser Glu Ser Glu Gly |     |     |     |
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| Glu Glu Asn   |     |     |     |

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<212> PRT  
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0032/0.69462960



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<210> 11265  
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| Ile | Cys | Tyr | Phe | Phe | Ile | Glu | Val | Glu | Cys | Ser | Asn | Lys | Asp | Leu | His |
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|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Gln | Ile | Leu | Leu | His | Ser | His | Lys | Lys | Asp | Ile | Leu | Met | His | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Trp | Arg | Tyr | Pro | Ser | Leu | Ser | Leu | His | Gly | Ile | Glu | Gly | Ala | Phe | Ser |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Thr | Ser | Tyr | Leu | Thr | Lys | Lys | Phe | Ala | Glu | Leu | Arg | Ser | Pro | Asn |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Val | Gly | Ser | Ala | Asp | Asp | Gly | Ala | His | Ser | Gln | Asn | Glu | Lys | Leu | Asn |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |
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|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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| Met | Arg | Val | Ser | Asp | Leu | Val | Lys | Asp | Leu | Ile | Phe | Leu | Ile | Gly | Ser |
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| Pro | Trp | Glu | Val | Thr | Glu | Ala | Val | Leu | Phe | Ile | Met | Ala | Ala | Ile | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Lys | Ser | Val | Asp | Pro | Glu | Asn | Asn | Pro | Thr | Leu | Val | Glu | Val | Leu | Glu |
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| Gly | Val | Val | Arg | Leu | Pro | Glu | Thr | Val | His | Thr | Ala | Val | Arg | Tyr | Ile |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
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|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gln | Phe | Leu | Asp | Pro | Val | Leu | Gly | Tyr | Leu | Met | Lys | Gly | Leu | Cys | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Pro | Leu | Ala | Ser | Ala | Ala | Ala | Lys | Ala | Ile | His | Asn | Ile | Cys | Ser |
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| Lys | Lys | Leu | Leu | Ser | Gln | Glu | Pro | Ser | Asn | Gly | Ile | Ser | Ser | Asp | Pro |
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| Thr | Val | Phe | Leu | Asp | Arg | Leu | Ala | Val | Ile | Phe | Arg | His | Thr | Asn | Pro |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ile | Trp | Pro | Val | Leu | Ser | Glu | Thr | Leu | Asn | Lys | His | Arg | Ala | Asp | Asn |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
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| Val | Asn | Val | Tyr | His | Val | His | Gln | His | Ser | Cys | Phe | Leu | Tyr | Leu | Gly |
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| Phe | Arg | Leu | Ala | Thr | Arg | Phe | Ile | Gln | Arg | Ser | Pro | Val | Thr | Leu | Leu |
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<210> 11271  
<211> 2020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (23).. (1345)

<400> 11271  
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cggagagtgc ttgcgggcct atgtgtcagt gaccctggaa caagtagccc agtggcatga 420  
tgagcagggc cacaatggac tgttgtatgt gatgcaagtg gtgagccagc tcttggaacc 480  
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<210> 11272  
 <211> 441  
 <212> PRT  
 <213> Homo sapiens

<400> 11272

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Ser | Lys | Ile | Cys | Pro | Phe | Thr | Ile | Ala | Ile | Phe | Leu | Lys | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Asn | Asp | Pro | Val | Val | Ala | Ser | Leu | Ala | Gln | Asp | Ile | Phe | Lys | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Ser | Gln | Ile | Glu | Ala | Cys | Gln | Gly | Pro | Met | Gln | Met | Arg | Leu | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Thr | Leu | Val | Ser | Ile | Met | Gln | Ala | Pro | Ala | Asp | Lys | Ile | Pro | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Leu | Cys | Ala | Thr | Ala | Ile | Asp | Ile | Leu | Thr | Thr | Val | Val | Arg | Asn |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Thr | Lys | Pro | Pro | Leu | Ser | Gln | Leu | Leu | Ile | Cys | Gln | Ala | Phe | Pro | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Val | Ala | Gln | Cys | Thr | Leu | His | Thr | Asp | Asp | Asn | Ala | Thr | Met | Gln | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gly | Gly | Glu | Cys | Leu | Arg | Ala | Tyr | Val | Ser | Val | Thr | Leu | Glu | Gln | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Gln | Trp | His | Asp | Glu | Gln | Gly | His | Asn | Gly | Leu | Trp | Tyr | Val | Met |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gln | Val | Val | Ser | Gln | Leu | Leu | Asp | Pro | Arg | Thr | Ser | Glu | Phe | Thr | Ala |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Ala | Phe | Val | Gly | Arg | Leu | Val | Ser | Thr | Leu | Ile | Ser | Lys | Ala | Gly | Arg |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |

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Glu Leu Gly Glu Asn Leu Asp Gln Ile Leu Arg Ala Ile Leu Ser Lys  
180 185 190  
Met Gln Gln Ala Glu Thr Leu Ser Val Met Gln Ser Leu Ile Met Val  
195 200 205  
Phe Ala His Leu Val His Thr Gln Leu Glu Pro Leu Leu Glu Phe Leu  
210 215 220  
Cys Ser Leu Pro Gly Pro Thr Gly Lys Pro Ala Leu Glu Phe Val Met  
225 230 235 240  
Ala Glu Trp Thr Ser Arg Gln His Leu Phe Tyr Gly Gln Tyr Glu Gly  
245 250 255  
Lys Val Ser Ser Val Ala Leu Cys Lys Leu Leu Gln His Gly Ile Asn  
260 265 270  
Ala Asp Asp Lys Arg Leu Gln Asp Ile Arg Val Lys Gly Glu Glu Ile  
275 280 285  
Tyr Ser Met Asp Glu Gly Ile Arg Thr Arg Ser Lys Ser Ala Lys Asn  
290 295 300  
Pro Glu Arg Trp Thr Asn Ile Pro Leu Leu Val Lys Ile Leu Lys Leu  
305 310 315 320  
Ile Ile Asn Glu Leu Ser Asn Val Met Glu Ala Asn Ala Ala Arg Gln  
325 330 335  
Ala Thr Pro Ala Glu Trp Ser Gln Asp Asp Ser Asn Asp Met Trp Glu  
340 345 350  
Asp Gln Glu Glu Glu Glu Glu Glu Glu Asp Gly Leu Ala Gly Gln  
355 360 365  
Leu Leu Ser Asp Ile Leu Ala Thr Ser Lys Tyr Glu Glu Asp Tyr Tyr  
370 375 380  
Glu Asp Asp Glu Glu Asp Asp Pro Asp Ala Leu Lys Asp Pro Leu Tyr  
385 390 395 400  
Gln Ile Asp Leu Gln Ala Tyr Leu Thr Asp Phe Leu Cys Gln Phe Ala  
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Arg Arg Val Leu Gln Thr Ile Gly Ile  
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<211> 2092  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (64).. (960)

<400> 11273  
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<210> 11274  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<400> 11274  
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 35 40 45  
 Ala Pro Glu Val Gly Pro Val Leu Arg Pro Leu Tyr Met Asp Val Gln

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|   |     |     |
|---|-----|-----|
| 50  | 55  | 60  |
| Ala Thr Thr Pro Leu Asp Pro Arg Val Leu Asp Ala Met Leu Pro Tyr |     |     |
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| Leu Ile Asn Tyr Tyr Gly Asn Pro His Ser Arg Thr His Ala Tyr Gly |     | 80  |
|   | 85  | 90  |
| Trp Glu Ser Glu Ala Ala Met Glu Arg Ala Arg Gln Gln Val Ala Ser |     | 95  |
|   | 100 | 105 |
| Leu Ile Gly Ala Asp Pro Arg Glu Ile Ile Phe Thr Ser Gly Ala Thr |     | 110 |
|   | 115 | 120 |
| Glu Ser Asn Asn Ile Ala Ile Lys Gly Val Ala Arg Phe Tyr Arg Ser |     | 125 |
|   | 130 | 135 |
| Arg Lys Lys His Leu Ile Thr Thr Gln Thr Glu His Lys Cys Val Leu |     | 140 |
| 145   | 150 | 155 |
| Asp Ser Cys Arg Ser Leu Glu Ala Glu Gly Phe Gln Val Thr Tyr Leu |     | 160 |
|   | 165 | 170 |
| Pro Val Gln Lys Ser Gly Ile Ile Asp Leu Lys Glu Leu Glu Ala Ala |     | 175 |
|   | 180 | 185 |
| Ile Gln Pro Asp Thr Ser Leu Val Ser Val Met Thr Val Asn Asn Glu |     | 190 |
|   | 195 | 200 |
| Ile Gly Val Lys Gln Pro Ile Ala Glu Ile Gly Arg Ile Cys Ser Ser |     | 205 |
|   | 210 | 215 |
| Arg Lys Val Tyr Phe His Thr Asp Ala Ala Gln Ala Val Gly Lys Ile |     | 220 |
| 225   | 230 | 235 |
| Pro Leu Asp Val Asn Asp Met Lys Ile Asp Leu Met Ser Ile Ser Gly |     | 240 |
|   | 245 | 250 |
| His Lys Ile Tyr Gly Pro Lys Gly Val Gly Ala Ile Tyr Ile Arg Arg |     | 255 |
|   | 260 | 265 |
| Arg Pro Arg Val Arg Val Glu Ala Leu Gln Ser Gly Gly Gly Gln Glu |     | 270 |
|   | 275 | 280 |
| Arg Gly Met Arg Ser Gly Thr Val Pro His Pro                     |     | 285 |
| 290   | 295 |     |

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 <211> 1916  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (179).. (1522)

<400> 11275  
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 gaaggggggc accctgggag ggatccctgg ggagcccgcc gtggaccacc gagatgtgga 240  
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 <211> 448  
 <212> PRT  
 <213> Homo sapiens

<400> 11276  
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 35 40 45  
 Lys Lys Lys Glu Lys Glu Lys Ala Gln Leu Ala Ala Glu Ala Leu Lys  
 50 55 60  
 Gln Ala Asn Arg Val Ser Gly Ser Arg Glu Pro Arg Pro Ala Arg Glu  
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 Arg Leu Leu Glu Trp Pro Asp Arg Glu Leu Asp Arg Val Asn Ser Phe  
 85 90 95  
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<210> 11277  
 <211> 2094  
 <212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (163).. (2079)

<400> 11277

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<210> 11278

<211> 639

<212> PRT

<213> Homo sapiens

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<400> 11278

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Cys | Val | Pro | Asp | Val | Ile | Thr | Ala | Ser | Lys | Ala | Gly | Val | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Ala | Leu | Pro | Pro | Ala | Asp | Val | Ser | Ala | Ser | Ile | Gly | Ser | Ser | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Val | Ala | Ser | Asn | Leu | Thr | Glu | Pro | Ser | Tyr | Ser | Ser | Ser | Thr | Cys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Ser | His | Thr | Val | Pro | Ser | Leu | His | Ala | Gly | Leu | Pro | Ser | Gln | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Tyr | Ala | Pro | Gly | Tyr | Asn | Gly | Ser | Tyr | Leu | His | Ser | Thr | Tyr | Ser | Ser |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Gln | Pro | Ala | Pro | Ala | Leu | Pro | Ser | Pro | His | Pro | Ser | Pro | Leu | His | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Gly | Leu | Leu | Gln | Pro | Pro | Pro | Pro | Pro | Pro | Pro | Pro | Pro | Ala | Leu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Val | Pro | Gly | Tyr | Asn | Gly | Thr | Ser | Asn | Leu | Ser | Ser | Tyr | Ser | Tyr | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Ala | Ser | Tyr | Pro | Pro | Gln | Thr | Ala | Val | Gly | Ser | Gly | Tyr | Ser | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Gly | Ala | Pro | Pro | Pro | Pro | Ser | Ala | Tyr | Leu | Pro | Ser | Gly | Ile | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ala | Pro | Thr | Pro | Leu | Pro | Pro | Thr | Thr | Val | Pro | Gly | Tyr | Thr | Tyr | Gln |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gly | His | Gly | Leu | Thr | Pro | Ile | Ala | Pro | Ser | Ala | Leu | Thr | Asn | Ser | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ala | Ser | Ser | Leu | Lys | Arg | Lys | Ala | Phe | Tyr | Met | Ala | Gly | Gln | Gly | Asp |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Met | Asp | Ser | Ser | Tyr | Gly | Asn | Tyr | Ser | Tyr | Gly | Gln | Gln | Arg | Ser | Thr |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gln | Ser | Pro | Met | Tyr | Arg | Met | Pro | Asp | Asn | Ser | Ile | Ser | Asn | Thr | Asn |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Gly | Asn | Gly | Phe | Asp | Arg | Ser | Ala | Glu | Thr | Ser | Ser | Leu | Ala | Phe |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Lys | Pro | Thr | Lys | Gln | Leu | Met | Ser | Ser | Glu | Gln | Gln | Arg | Lys | Phe | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Gln | Ser | Ser | Arg | Ala | Leu | Thr | Pro | Pro | Ser | Tyr | Ser | Thr | Ala | Lys |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Asn | Ser | Leu | Gly | Ser | Arg | Ser | Ser | Glu | Ser | Phe | Gly | Lys | Tyr | Thr | Ser |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Pro | Val | Met | Ser | Glu | His | Gly | Asp | Glu | His | Arg | Gln | Leu | Leu | Ser | His |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Pro | Met | Gln | Gly | Pro | Gly | Leu | Arg | Ala | Ala | Thr | Ser | Ser | Asn | His | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Val | Asp | Glu | Gln | Leu | Lys | Asn | Thr | Asp | Thr | His | Leu | Ile | Asp | Leu | Val |
|     |     | 340 |     |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Thr | Asn | Glu | Ile | Ile | Thr | Gln | Gly | Pro | Pro | Val | Asp | Trp | Asn | Asp | Ile |
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Ser Gly Leu Val Ala Lys Trp Leu Gly Glu Ala Glu Lys Ile Ile His  
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Ala Ser Phe Leu Val Ala Arg Cys Arg Gln Pro Ser Val Ile Phe Val  
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Pro Glu Glu Ile Asp Glu Ser Leu Arg Arg Tyr Phe Met Lys Arg Leu  
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Leu Leu Ser Gln His Asn Tyr Cys Leu Asn Asp Lys Glu Phe Ala Leu  
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Cys Gln Glu Ala Val Val Gly Pro Leu His Ala Met Pro Ala Thr Asp  
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Leu Ser Ala Ile Met Pro Ser Gln Leu Arg Pro Val Thr Tyr Gln Asp  
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Ala | Val | Phe | Arg | Gly | Tyr | Ala | Glu | Arg | Lys | Arg | Arg | Lys | Arg | Glu |
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| Asn | Asp | Ser | Ala | Ser | Val | Ile | Gln | Arg | Asn | Phe | Arg | Lys | His | Leu | Arg |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Met | Val | Gly | Ser | Arg | Arg | Val | Lys | Ala | Gln | Thr | Phe | Ala | Glu | Arg | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Arg | Ser | Phe | Ser | Arg | Ser | Trp | Ser | Asp | Pro | Thr | Pro | Met | Lys | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Thr | Ser | His | Asp | Ser | Arg | Asp | Ser | Ser | Asp | Leu | Gln | Ser | Ser | His |
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| Cys | Thr | Leu | Asp | Glu | Ala | Phe | Glu | Asp | Leu | Asp | Trp | Asp | Thr | Glu | Lys |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Leu | Glu | Ala | Val | Ala | Cys | Asp | Thr | Glu | Gly | Phe | Val | Pro | Pro | Lys |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Met | Leu | Ile | Ser | Ser | Lys | Val | Pro | Lys | Ala | Glu | Tyr | Ile | Pro | Thr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ile | Ile | Arg | Arg | Asp | Asp | Pro | Ser | Ile | Ile | Pro | Ile | Leu | Tyr | Asp | His |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Glu | His | Ala | Thr | Phe | Glu | Asp | Ile | Leu | Glu | Glu | Ile | Glu | Arg | Lys | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asn | Val | Tyr | His | Lys | Gly | Ala | Lys | Ile | Trp | Lys | Met | Leu | Ile | Phe | Cys |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gln | Gly | Gly | Pro | Gly | His | Leu | Tyr | Leu | Leu | Lys | Asn | Lys | Val | Ala | Thr |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Phe | Ala | Lys | Val | Glu | Lys | Glu | Glu | Asp | Met | Ile | His | Phe | Trp | Lys | Arg |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Ser | Arg | Leu | Met | Ser | Lys | Val | Asn | Pro | Glu | Pro | Asn | Val | Ile | His |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ile | Met | Gly | Cys | Tyr | Ile | Leu | Gly | Asn | Pro | Asn | Gly | Glu | Lys | Leu | Phe |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gln | Asn | Leu | Arg | Thr | Leu | Met | Thr | Pro | Tyr | Arg | Val | Thr | Phe | Glu | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Pro | Leu | Glu | Leu | Ser | Ala | Gln | Gly | Lys | Gln | Met | Ile | Glu | Thr | Tyr | Phe |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asp | Phe | Arg | Leu | Tyr | Arg | Leu | Trp | Lys | Ser | Arg | Gln | His | Ser | Lys | Leu |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Asp | Phe | Asp | Asp | Val | Leu |     |     |     |     |     |     |     |     |     |
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Cys | Thr | Met | Lys | Gly | Glu | Glu | Lys | Ser | Pro | Lys | Thr | Lys | Lys | Asp |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Lys | Arg | Pro | Pro | Ile | Leu | Glu | Cys | Leu | Glu | Lys | Leu | Glu | Lys | Ser | Lys |
|     |     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |
| Lys | Thr | Phe | Leu | Asp | Lys | Asp | Ala | Gln | Arg | Leu | Ser | Pro | Ile | Pro | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Val | Pro | Lys | Ser | Thr | Leu | Glu | Ser | Glu | Lys | Pro | Gly | Ser | Pro | Glu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Ala | Glu | Thr | Ser | Pro | Pro | Ser | Asn | Ile | Ile | Asp | His | Cys | Glu | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Ala | Ser | Glu | Lys | Glu | Val | Val | Glu | Cys | Gln | Ser | Thr | Ser | Thr | Val |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gly | Gly | Gln | Ser | Val | Lys | Lys | Val | Asp | Leu | Glu | Thr | Leu | Lys | Glu | Asp |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Glu | Phe | Thr | Lys | Val | Glu | Met | Asp | Asn | Leu | Asp | Asn | Ala | Gln | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Ser | Gly | Ile | Glu | Glu | Pro | Ser | Glu | Thr | Lys | Gly | Ser | Met | Gln | Lys | Ser |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Phe | Lys | Tyr | Lys | Leu | Val | Pro | Glu | Glu | Glu | Thr | Thr | Ala | Ser | Glu |
|     | 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Asn | Thr | Glu | Ile | Thr | Ser | Glu | Arg | Gln | Lys | Glu | Gly | Ile | Lys | Leu | Thr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ile | Arg | Ile | Ser | Ser | Arg | Lys | Lys | Lys | Pro | Asp | Ser | Pro | Pro | Lys | Val |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Glu | Pro | Glu | Asn | Lys | Gln | Glu | Lys | Thr | Glu | Lys | Glu | Glu | Glu | Lys |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Thr | Asn | Val | Gly | Arg | Thr | Leu | Arg | Arg | Ser | Pro | Arg | Ile | Ser | Arg | Pro |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Thr | Ala | Lys | Val | Ala | Glu | Ile | Arg | Asp | Gln | Lys | Ala | Asp | Lys | Lys | Arg |
|     | 290 |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Gly | Glu | Gly | Glu | Asp | Glu | Val | Glu | Glu | Glu | Ser | Thr | Ala | Leu | Gln | Lys |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Asp | Lys | Lys | Glu | Ile | Leu | Lys | Lys | Ser | Glu | Lys | Asp | Thr | Asn | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Lys | Val | Ser | Lys | Val | Lys | Pro | Lys | Gly | Lys | Val | Arg | Trp | Thr | Gly | Ser |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |
| Arg | Thr | Arg | Gly | Arg | Trp | Lys | Tyr | Ser | Ser | Asn | Asp | Glu | Ser | Glu | Gly |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Ser | Gly | Ser | Glu | Lys | Ser | Ser | Ala | Ala | Ser | Glu | Glu | Glu | Glu | Glu | Lys |
|     | 370 |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |
| Glu | Ser | Glu | Glu | Ala | Ile | Leu | Ala | Asp | Asp | Asp | Glu | Pro | Cys | Lys | Lys |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Cys | Gly | Leu | Pro | Asn | His | Pro | Glu | Leu | Ile | Leu | Leu | Cys | Asp | Ser | Cys |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Asp | Ser | Gly | Tyr | His | Thr | Ala | Cys | Leu | Arg | Pro | Pro | Leu | Met | Ile | Ile |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Pro | Asp | Gly | Glu | Trp | Phe | Cys | Pro | Pro | Cys | Gln | His | Lys | Leu | Leu | Cys |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     |     | 445 |     |     |

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Gln Glu Glu Lys Lys Lys Asp Ser Lys Lys Ser Lys Ala Asn Leu Leu  
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| Leu | Tyr | Ser | Ser | Tyr | Val | Ile | Phe | Tyr | Phe | Leu | Leu | Leu | Ser | Val | Val |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Ile | Ile | Ile | Ser | Ile | Phe | Asn | Val | Glu | Phe | Tyr | Ala | Val | Val | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Ile | Pro | Cys | Ser | Arg | Leu | Ala | Leu | Ile | Gly | Lys | Ile | Ile | His | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Gln | Leu | Met | His | Ser | Phe | Ile | His | Ala | Ala | Met | Gly | Met | Val | Met |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Trp | Cys | Ala | Ala | Val | Ile | Thr | Gln | Gly | Gln | Tyr | Ser | Phe | Leu | Val |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     | 175 |
| Gly | Tyr | Ser | Tyr | Ser | Leu | Leu | Tyr | Phe | Val | Asn | Asn | Met | Asn |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |
| Pro | Phe | Pro | Ile | Ile | Gln | Gln | Tyr | Lys | Phe | Leu | Arg | Phe | Arg |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 | Arg |
| Leu | Leu | Leu | Leu | Val | Lys | His | Ser | Cys | Val | Glu | Ser | Leu | Phe |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 | Leu | Val |
| Arg | Asn | Phe | Cys | Ile | Leu | Tyr | Tyr | Phe | Leu | Gly | Tyr | Ile | Pro |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     | Lys | Ala |
| Trp | Ile | Ser | Thr | Ala | Met | Asn | Leu | His | Ile | Asp | Glu | Gln | Val |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     | 255 |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Val | Trp | Leu | Cys | Gly | Val | Phe | Leu | Leu | Thr | Thr | Trp | Tyr | Val |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 | Ser |
| Ile | Leu | Phe | Lys | Ile | Tyr | Ala | Thr | Glu | Ala | His | Val | Phe | Pro |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 | Val | Gln |
| Pro | Pro | Phe | Ala | Glu | Gly | Ser | Asp | Glu | Cys | Leu | Pro | Lys | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     | Leu | Asn |
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| Cys | Leu | Asn | Leu | Leu | Asn | Gly | Met | Thr | Gln | Lys | Leu | Ile | Leu |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 | Tyr | Gln |
| Glu | Ala | Ala | Ala | Thr | Asn | Gly | Arg | Val | Ser | Ser | Ser | Tyr | Pro |
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| Pro | Lys | Lys | Leu | Asn | Ser | Pro | Glu | Glu | Thr | Ala | Phe | Gln | Thr |
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|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |
| Leu | Phe | Ser | Ser | Lys | Leu | Ser | Thr | Pro | Asp | Val | Val | Ser | Pro |
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| Thr | Pro | Phe | Gly | Ser | Ser | Val | Met | Asn | Arg | Met | Ala | Gly | Ile |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 | Phe | Asp |
| Val | Asn | Thr | Cys | Tyr | Gly | Ser | Pro | Gln | Ser | Pro | Gln | Leu | Ile |
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| Ile | Lys | Asn | Phe | Leu | Ser | Lys | Arg | Val | Leu | Ile | Met | Tyr | Phe |
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<213> Homo sapiens

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catatacacc tccagggacc aaaaacaaaa gcagctcgga gtctgtgttg cctgattgga 2040
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<210> 11288

<211> 423

<212> PRT

<213> Homo sapiens

|          |     |     |     |            |     |     |     |     |           |     |     |     |     |           |     |
|----------|-----|-----|-----|------------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----------|-----|
| Met<br>1 | Val | Phe | Ser | Asn<br>5   | Asn | Asp | Glu | Gly | Leu<br>10 | Ile | Asn | Lys | Lys | Leu<br>15 | Pro |
| Lys      | Glu | Leu | Leu | Arg<br>20  | Ile | Phe | Ser | Phe | Leu       | Asp | Ile | Val | Thr | Leu       |     |
| Cys      | Arg | Cys | Ala | Gln<br>35  | Ile | Ser | Lys | Ala | Trp       | Asn | Ile | Leu | Ala | Leu       | Asp |
| Gly      | Ser | Asn | Trp | Gln<br>50  | Arg | Ile | Asp | Leu | Phe       | Asn | Phe | Gln | Thr | Asp       | Val |
| Glu      | Gly | Arg | Val | Val<br>65  | Glu | Asn | Ile | Ser | Lys       | Arg | Cys | Gly | Gly | Phe       | Leu |
| Arg      | Lys | Leu | Ser | Leu<br>85  | Arg | Gly | Cys | Ile | Gly       | Val | Gly | Asp | Ser | Ser       | Leu |
| Lys      | Thr | Phe | Ala | Gln<br>100 | Asn | Cys | Arg | Asn | Ile       | Glu | His | Leu | Asn | Leu       | Asn |
| Gly      | Cys | Thr | Lys | Ile<br>115 | Thr | Asp | Ser | Thr | Cys       | Tyr | Ser | Leu | Ser | Arg       | Phe |
| Cys      | Ser | Lys | Leu | Lys<br>130 | His | Leu | Asp | Leu | Thr       | Ser | Cys | Val | Ser | Ile       | Thr |
| Asn      | Ser | Ser | Leu | Lys<br>145 | Gly | Ile | Ser | Glu | Gly       | Cys | Arg | Asn | Leu | Glu       | Tyr |
| Leu      | Asn | Leu | Ser | Trp<br>165 | Cys | Asp | Gln | Ile | Thr       | Lys | Asp | Gly | Ile | Glu       | Ala |
| Leu      | Val | Arg | Gly | Cys<br>180 | Arg | Gly | Leu | Lys | Ala       | Leu | Pro | Leu | Arg | Gly       | Cys |
| Thr      | Gln | Leu | Glu | Asp<br>195 | Glu | Ala | Leu | Lys | His       | Ile | Gln | Asn | Tyr | Cys       | His |
| Glu      | Leu | Val | Ser | Leu<br>210 | Asn | Leu | Gln | Ser | Cys       | Ser | Arg | Ile | Thr | Asp       | Glu |
| Gly      | Val | Val | Gln | Ile<br>225 | Cys | Arg | Gly | Cys | His       | Arg | Leu | Gln | Ala | Leu       | Cys |
| Leu      | Ser | Gly | Cys | Ser<br>245 | Asn | Leu | Thr | Asp | Ala       | Ser | Leu | Thr | Ala | Leu       | Gly |
| Leu      | Asn | Cys | Pro | Arg<br>260 | Leu | Gln | Ile | Leu | Glu       | Ala | Ala | Arg | Cys | Ser       | His |
| Leu      | Thr | Asp | Ala | Gly<br>275 | Phe | Thr | Leu | Leu | Ala       | Arg | Asn | Cys | His | Glu       | Leu |
| Glu      | Lys | Met | Asp | Leu<br>290 | Glu | Glu | Cys | Ile | Leu       | Ile | Thr | Asp | Ser | Thr       | Leu |
| Ile      | Gln | Leu | Ser | Ile<br>305 | His | Cys | Pro | Lys | Leu       | Gln | Ala | Leu | Ser | Leu       | Ser |
| His      | Cys | Glu | Leu | Ile<br>325 | Thr | Asp | Asp | Gly | Ile       | Leu | His | Leu | Ser | Asn       | Ser |
| Thr      | Cys | Gly | His | Glu<br>340 | Arg | Leu | Arg | Val | Leu       | Glu | Leu | Asp | Asn | Cys       | Leu |
| Leu      | Ile | Thr | Asp | Val<br>355 | Ala | Leu | Glu | His | Leu       | Glu | Asn | Cys | Arg | Gly       | Leu |

-4756/13211-

Glu Arg Leu Glu Leu Tyr Asp Cys Gln Gln Val Thr Arg Ala Gly Ile  
370 375 380  
Lys Arg Met Arg Ala Gln Leu Pro His Val Lys Val His Ala Tyr Phe  
385 390 395 400  
Ala Pro Val Thr Pro Pro Thr Ala Val Ala Gly Ser Gly Gln Arg Leu  
405 410 415  
Cys Arg Cys Cys Val Ile Leu  
420

<210> 11289  
<211> 2034  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (510).. (1784)

<400> 11289  
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actcaggatc ccagcccggg tctcacctg ggtctcagag tggctccggg gaacgcttca 180  
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aaaaacctga agataaaaag gaagttttca gacccctcaa gcctgctgat ctgaccgcac 300  
tgGCCaaaga gcttcgagca gtggaagatg tacggccacc tcacaaagta acggactact 360  
cctcatccag tgaggagtgc gggacgacgg atgaggagga cgacgatgtg gaggaggaag 420  
gggctgacga gtccacctca ggaccagagg acaccagagc agcgtcatct ctgaatttga 480  
gcaatggtga aacggaatct gtgaaaacca tgattgtcca tgatgatgta gaaagtgagc 540  
cggccatgac cccatccaag gagggcactc taatcgtccg ccagactcag tccgctagta 600  
gcacactcca gaaacacaaa tcttcctcct cttttacacc ttttatagac cccagattac 660  
tacagatttc tccatctagc ggaacaacag tgacatctgt ggtgggattt tctgtgatg 720  
ggatgagacc agaagccata aggcaagatc ctacccggaaggctcagtg gtcaatgtga 780  
atcctaccaa cactaggcca cagagtgaac ccccgagat tcgtaaatac aagaagaggt 840  
ttaactctga gattctgtgt gctgccttat ggggagtgaa tttgctagtg ggtacagaga 900  
gtggcctgat gctgctggac agaagtggcc aagggaagggt ctatcctctt atcaaccgaa 960  
gacgatttca acaaatggac gtacttgagg gcttgaatgt cttggtgaca atatctggca 1020  
aaaaggataa gttacgtgtc tactatttgt cctgggttaag aaataaaata cttcacaatg 1080  
atccagaggt tgagaagaag cagggatgga caaccgtagg ggatttggaa ggatgtgtac 1140  
attataaagt tgtaaaatat gaaagaatca aatttctggt gattgctttg aagagttctg 1200  
tggaagtcta tgcgtgggca ccaaagccat atcacaatt tatggccttt aagtcatttg 1260  
gagaattggt acataagcca ttactggttg atctcactgt tgaggaaggc cagaggttga 1320  
aagtgatcta tggatcctgt gctggattcc atgctgttga tgtggattca ggatcagtct 1380  
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tccccaatag agatggaatg gagcttcttg tgtgctatga agatgagggg gtttatgtaa 1500  
acacatatgg aaggatcacc aaggatgtag ttctacagtg gggagagatg cctacatcag 1560  
tagcatatat tcgatccaat cagacaatgg gctggggaga gaaggccata gagatccgat 1620  
ctgtggaaac tggtcacttg gatggtgtgt tcatgcacaa aagggtcaa agactaaaat 1680

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tcttgtgtga acgcaatgac aagggtgttct ttgcctctgt togggtctggt ggcagcagtc 1740  
 aggtttatit catgacctta ggcaggactt ctcttctgag ctggtagaag cagtgtgatc 1800  
 cagggattac tggcctccag agtcttcaag atcctgagaa otttggaattc cttgtaactg 1860  
 gagctcggag ctgcaccgag ggcaaccagg acagctgtgt gtgcagacct catgtgttgg 1920  
 gttctctccc ctcttctcctg ttctctttat ataccagttt atccccattc tttttttttt 1980  
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<210> 11290  
 <211> 425  
 <212> PRT  
 <213> Homo sapiens

<400> 11290  
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 Lys Glu Gly Thr Leu Ile Val Arg Gln Thr Gln Ser Ala Ser Ser Thr  
 20 25 30  
 Leu Gln Lys His Lys Ser Ser Ser Ser Phe Thr Pro Phe Ile Asp Pro  
 35 40 45  
 Arg Leu Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val Thr Ser Val  
 50 55 60  
 Val Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala Ile Arg Gln Asp  
 65 70 75 80  
 Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn Pro Thr Asn Thr Arg  
 85 90 95  
 Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys Tyr Lys Lys Arg Phe Asn  
 100 105 110  
 Ser Glu Ile Leu Cys Ala Ala Leu Trp Gly Val Asn Leu Leu Val Gly  
 115 120 125  
 Thr Glu Ser Gly Leu Met Leu Leu Asp Arg Ser Gly Gln Gly Lys Val  
 130 135 140  
 Tyr Pro Leu Ile Asn Arg Arg Arg Phe Gln Gln Met Asp Val Leu Glu  
 145 150 155 160  
 Gly Leu Asn Val Leu Val Thr Ile Ser Gly Lys Lys Asp Lys Leu Arg  
 165 170 175  
 Val Tyr Tyr Leu Ser Trp Leu Arg Asn Lys Ile Leu His Asn Asp Pro  
 180 185 190  
 Glu Val Glu Lys Lys Gln Gly Trp Thr Thr Val Gly Asp Leu Glu Gly  
 195 200 205  
 Cys Val His Tyr Lys Val Val Lys Tyr Glu Arg Ile Lys Phe Leu Val  
 210 215 220  
 Ile Ala Leu Lys Ser Ser Val Glu Val Tyr Ala Trp Ala Pro Lys Pro  
 225 230 235 240  
 Tyr His Lys Phe Met Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys  
 245 250 255  
 Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys Val  
 260 265 270

000220.69462550

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Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp Ser Gly  
275 280 285  
Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys Ser Ile Lys  
290 295 300  
Pro His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly Met Glu Leu Leu  
305 310 315 320  
Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn Thr Tyr Gly Arg Ile  
325 330 335  
Thr Lys Asp Val Val Leu Gln Trp Gly Glu Met Pro Thr Ser Val Ala  
340 345 350  
Tyr Ile Arg Ser Asn Gln Thr Met Gly Trp Gly Glu Lys Ala Ile Glu  
355 360 365  
Ile Arg Ser Val Glu Thr Gly His Leu Asp Gly Val Phe Met His Lys  
370 375 380  
Arg Ala Gln Arg Leu Lys Phe Leu Cys Glu Arg Asn Asp Lys Val Phe  
385 390 395 400  
Phe Ala Ser Val Arg Ser Gly Gly Ser Ser Gln Val Tyr Phe Met Thr  
405 410 415  
Leu Gly Arg Thr Ser Leu Leu Ser Trp  
420 425

<210> 11291

<211> 1652

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (103).. (1380)

<400> 11291

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ttgtactact cagctgatca caagctgctt gatgggaacc tactagatgg acaggctgag 180  
gtgtttggca gtgatgatga ccacattcag tttgtgcaga aaaagccacc acgtgagaat 240  
ggccataagc agataagtag cagttcaact ggatgtctct ctctcctcaa tgctacagta 300  
caaagcccta agcatgagtg gaaaatcggt gcttcagaaa agacttcaa taacacttac 360  
ttgtgccttg ctgtgctgga tggatatatt tgtgtcatit ttcttcatgg gagaaacagc 420  
ccacagagct caccaacaag tactccaaaa ctaagtaaga gttaagctt tgagatgcaa 480  
caagatgagc taatcgaaaa gcccatgtct cctatgcagt acgcacgac tggtctggga 540  
acagcagaga tgaatggcaa actcatagct gcagggtggc ataacagaga ggaatgtctt 600  
cgaacagtcg aatgctataa tccacataca gatcactggc cctttcttgc tcccatgaga 660  
acaccaagag cccgatttca aatggctgta ctcatgggcc agctctatgt ggtaggtgga 720  
tcaaattggc actcagatga cctgagttgt ggagagatgt atgattcaaa catagatgac 780  
tggaattcctg ttccagaatt gagaactaac cgttgtaatg caggagtgtg tgctctgaat 840  
ggaaagtatt acatcgttgg tggctctgat ccatatggtc aaaaaggact gaaaaattgt 900  
gatgtatttg atcctgtaac aaagtgtgtg acaagctgtg cccctcttaa cattcggaga 960

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caccagtctg cagtctgtga gcttgggtggt tatttgtaca taatcggagg tgcagaatct 1020  
 tggaattgtc cgaacacagt agaacgatac aatcctgaaa ataatacctg gactttaatt 1080  
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 gtatgtggtg gctttgatgg ttctcatgcc atcagttgtg tggaaatgta tgatccaact 1200  
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 gtacacttgt gaataaagag ggtgggtggg tatagatgtt gctaacagca acacaaagct 1500  
 tttgcatatt gcatactatt aaacatgctg tacatacttt ttgggtttat ttggaaagga 1560  
 atgcaaagat gaaggtctgt tttgtgtact ttttaagact tggttatttt actttttgga 1620  
 aaagaataaa ccaagaattg attgggcaca tc 1652

<210> 11292  
 <211> 426  
 <212> PRT  
 <213> Homo sapiens

<400> 11292  
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 20 25 30  
 Asp His Ile Gln Phe Val Gln Lys Pro Pro Arg Glu Asn Gly His  
 35 40 45  
 Lys Gln Ile Ser Ser Ser Thr Gly Cys Leu Ser Ser Pro Asn Ala  
 50 55 60  
 Thr Val Gln Ser Pro Lys His Glu Trp Lys Ile Val Ala Ser Glu Lys  
 65 70 75 80  
 Thr Ser Asn Asn Thr Tyr Leu Cys Leu Ala Val Leu Asp Gly Ile Phe  
 85 90 95  
 Cys Val Ile Phe Leu His Gly Arg Asn Ser Pro Gln Ser Ser Pro Thr  
 100 105 110  
 Ser Thr Pro Lys Leu Ser Lys Ser Leu Ser Phe Glu Met Gln Gln Asp  
 115 120 125  
 Glu Leu Ile Glu Lys Pro Met Ser Pro Met Gln Tyr Ala Arg Ser Gly  
 130 135 140  
 Leu Gly Thr Ala Glu Met Asn Gly Lys Leu Ile Ala Ala Gly Gly Tyr  
 145 150 155 160  
 Asn Arg Glu Glu Cys Leu Arg Thr Val Glu Cys Tyr Asn Pro His Thr  
 165 170 175  
 Asp His Trp Ser Phe Leu Ala Pro Met Arg Thr Pro Arg Ala Arg Phe  
 180 185 190  
 Gln Met Ala Val Leu Met Gly Gln Leu Tyr Val Val Gly Gly Ser Asn  
 195 200 205  
 Gly His Ser Asp Asp Leu Ser Cys Gly Glu Met Tyr Asp Ser Asn Ile  
 210 215 220

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Asp Asp Trp Ile Pro Val Pro Glu Leu Arg Thr Asn Arg Cys Asn Ala  
 225 230 235 240  
 Gly Val Cys Ala Leu Asn Gly Lys Leu Tyr Ile Val Gly Gly Ser Asp  
 245 250 255  
 Pro Tyr Gly Gln Lys Gly Leu Lys Asn Cys Asp Val Phe Asp Pro Val  
 260 265 270  
 Thr Lys Leu Trp Thr Ser Cys Ala Pro Leu Asn Ile Arg Arg His Gln  
 275 280 285  
 Ser Ala Val Cys Glu Leu Gly Gly Tyr Leu Tyr Ile Ile Gly Gly Ala  
 290 295 300  
 Glu Ser Trp Asn Cys Pro Asn Thr Val Glu Arg Tyr Asn Pro Glu Asn  
 305 310 315 320  
 Asn Thr Trp Thr Leu Ile Ala Pro Met Asn Val Ala Arg Arg Gly Ala  
 325 330 335  
 Gly Val Ala Val Leu Asn Gly Lys Leu Phe Val Cys Gly Gly Phe Asp  
 340 345 350  
 Gly Ser His Ala Ile Ser Cys Val Glu Met Tyr Asp Pro Thr Arg Asn  
 355 360 365  
 Glu Trp Lys Met Met Gly Asn Met Thr Ser Pro Arg Ser Asn Ala Gly  
 370 375 380  
 Ile Ala Thr Val Gly Asn Thr Ile Tyr Ala Val Gly Gly Phe Asp Gly  
 385 390 395 400  
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 405 410 415  
 Trp Ser Pro Tyr Thr Lys Ile Phe Gln Phe  
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<210> 11293  
 <211> 1506  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> CDS  
 <222> (188).. (1165)

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 tatctattgg ctccaccctg ctttgtcttg gctaccactg ttccctcgta ttggagctga 180  
 tagaaaaatg gctggaaaga caagtccttg gtcaaagat gcaaccctgc agcatgtttt 240  
 aatgagtgaac tggctctgta gctttacttc tctatataat ttgctgaaga caaaactttg 300  
 cccctatttc tacgtttgta cctatcagtt tactgtcctg ttccgagcag caggattagc 360  
 tggaagtgaac ttaatcacag ctctcatatc tccaacaact cgagggttaa gagaagctat 420  
 gagaaatgaa ggtattgaat tttctctgcc ttttaataaaa gaaagtggcc ataagaagga 480  
 gacagcatct ggaacaagct tgggatattg ggaggagcaa gccatcagtg atgaggatga 540  
 agaggaaagt ttttcttgcc tggaagagat ggggtgtgcaa gataaaatta aaaagccaga 600

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catactttct atcaagctgc gtaaagagaa acatgaagta caaatggatc acagacctga 660  
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taagagttha gttgctacct cagggtccaca ggcaggactt cctccaaccc tcttgtcccc 780  
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tcattctctg cattcactga ccatgctgct caaatcttca cagagtggat ctttctctgc 960  
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ggagcaactt agtcaaatac cgttacttgg gaaatcatct ttacggaatg tgggtgctgag 1140  
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acagatcttt cattgcagca gagaagttcc cagacctctt gtgctctttc tcctactgca 1380  
acaagacctt taaaaaaaaa ttgttacta aataaatttc aaagcaccac tttaaaacaa 1440  
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cctagt 1506

<210> 11294

<211> 326

<212> PRT

<213> Homo sapiens

<400> 11294

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Gly | Lys | Thr | Ser | Pro | Trp | Ser | Asn | Asp | Ala | Thr | Leu | Gln | His |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Leu | Met | Ser | Asp | Trp | Ser | Val | Ser | Phe | Thr | Ser | Leu | Tyr | Asn | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Lys | Thr | Lys | Leu | Cys | Pro | Tyr | Phe | Tyr | Val | Cys | Thr | Tyr | Gln | Phe |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Val | Leu | Phe | Arg | Ala | Ala | Gly | Leu | Ala | Gly | Ser | Asp | Leu | Ile | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Leu | Ile | Ser | Pro | Thr | Thr | Arg | Gly | Leu | Arg | Glu | Ala | Met | Arg | Asn |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Gly | Ile | Glu | Phe | Ser | Leu | Pro | Leu | Ile | Lys | Glu | Ser | Gly | His | Lys |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Lys | Glu | Thr | Ala | Ser | Gly | Thr | Ser | Leu | Gly | Tyr | Gly | Glu | Glu | Gln | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Ser | Asp | Glu | Asp | Glu | Glu | Glu | Ser | Phe | Ser | Trp | Leu | Glu | Glu | Met |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Val | Gln | Asp | Lys | Ile | Lys | Lys | Pro | Asp | Ile | Leu | Ser | Ile | Lys | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Arg | Lys | Glu | Lys | His | Glu | Val | Gln | Met | Asp | His | Arg | Pro | Glu | Ser | Val |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Leu | Val | Lys | Gly | Ile | Asn | Thr | Phe | Thr | Leu | Leu | Asn | Phe | Leu | Ile |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Asn | Ser | Lys | Ser | Leu | Val | Ala | Thr | Ser | Gly | Pro | Gln | Ala | Gly | Leu | Pro |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |

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Pro Thr Leu Leu Ser Pro Val Ala Phe Arg Gly Ala Thr Met Gln Met  
195 200 205  
Leu Lys Ala Arg Ser Val Asn Val Lys Thr Gln Ala Leu Ser Gly Tyr  
210 215 220  
Arg Asp Gln Phe Ser Leu Glu Ile Thr Gly Pro Ile Met Pro His Ser  
225 230 235 240  
Leu His Ser Leu Thr Met Leu Leu Lys Ser Ser Gln Ser Gly Ser Phe  
245 250 255  
Ser Ala Val Leu Tyr Pro His Glu Pro Thr Ala Val Phe Asn Ile Cys  
260 265 270  
Leu Gln Met Asp Lys Val Leu Asp Met Glu Val Val His Lys Glu Leu  
275 280 285  
Thr Asn Cys Gly Leu His Pro Asn Thr Leu Glu Gln Leu Ser Gln Ile  
290 295 300  
Pro Leu Leu Gly Lys Ser Ser Leu Arg Asn Val Val Leu Arg Asp Tyr  
305 310 315 320  
Ile Tyr Asn Trp Arg Ser  
325

<210> 11295  
<211> 858  
<212> DNA  
<213> Homo sapiens

<220>  
<221> CDS  
<222> (37).. (591)

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<400> 11296

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Leu Gly Pro Phe Asn Pro Gly Leu Pro Val Glu Val Pro Leu Trp Leu
          35          40          45
Ala Ile Asn Leu Lys Gln Arg Gln Lys Cys Arg Leu Leu Pro Pro Glu
          50          55          60
Trp Met Asp Val Glu Lys Leu Glu Lys Met Arg Asp His Glu Arg Lys
          65          70          75          80
Glu Glu Thr Phe Thr Pro Met Pro Ser Pro Tyr Tyr Met Glu Leu Thr
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Lys Leu Leu Leu Asn His Ala Ser Asp Asn Ile Pro Lys Ala Asp Glu
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Ile Arg Thr Leu Val Lys Asp Met Trp Asp Thr Arg Ile Ala Lys Leu
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 <212> PRT  
 <213> Homo sapiens

<400> 11298

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Arg | Arg | Lys | Gln | Arg | Lys | Pro | Gln | Gln | Leu | Ile | Ser | Asp | Cys |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Glu | Gly | Pro | Ser | Ala | Ser | Glu | Asn | Gly | Asp | Ala | Ser | Glu | Glu | Asp | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Gln | Val | Cys | Ala | Lys | Cys | Cys | Ala | Gln | Phe | Thr | Asp | Pro | Thr | Glu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Leu | Ala | His | Gln | Asn | Ala | Cys | Ser | Thr | Asp | Pro | Pro | Val | Met | Val |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Ile | Ile | Gly | Gly | Gln | Glu | Asn | Pro | Asn | Asn | Ser | Ser | Ala | Ser | Ser | Glu |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Pro | Arg | Pro | Glu | Gly | His | Asn | Asn | Pro | Gln | Val | Met | Asp | Thr | Glu | His |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Ser | Asn | Pro | Pro | Asp | Ser | Gly | Ser | Ser | Val | Pro | Thr | Asp | Pro | Thr | Trp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Gly | Pro | Glu | Arg | Arg | Gly | Glu | Glu | Ser | Ser | Gly | His | Phe | Leu | Val | Ala |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Thr | Glu | Pro | Val | Cys | Gly | Ile | Pro | Val | Lys | Trp | Pro | Ala | His | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Leu | Glu | Phe | Gln | Leu | His | Leu | His | Tyr | His | Ser | Lys | Pro | Gly | Pro |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |

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 <213> Homo sapiens

<400> 11300

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| Met | Ser | Pro | Ala | Pro | Asp | Ala | Ala | Pro | Ala | Pro | Ala | Ser | Ile | Ser | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Phe | Asp | Leu | Ser | Ala | Asp | Ala | Pro | Val | Phe | Gln | Gly | Leu | Ser | Leu | Val |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |     |
| Ser | His | Ala | Pro | Gly | Glu | Ala | Leu | Ala | Arg | Ala | Pro | Arg | Thr | Ser | Cys |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Ser | Gly | Ser | Gly | Glu | Arg | Glu | Ser | Pro | Glu | Arg | Lys | Leu | Leu | Gln | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Met | Asp | Ile | Ser | Glu | Lys | Leu | Phe | Cys | Ser | Thr | Cys | Asp | Gln | Thr |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Phe | Gln | Asn | His | Gln | Glu | Gln | Arg | Glu | His | Tyr | Lys | Leu | Asp | Trp | His |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Arg | Phe | Asn | Leu | Lys | Gln | Arg | Leu | Lys | Asp | Lys | Pro | Leu | Leu | Ser | Ala |
|     |     |     | 100 |     |     |     |     |     | 105 |     |     |     | 110 |     |     |
| Leu | Asp | Phe | Glu | Lys | Gln | Ser | Ser | Thr | Gly | Asp | Leu | Ser | Ser | Ile | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Ser | Glu | Asp | Ser | Asp | Ser | Ala | Ser | Glu | Glu | Asp | Leu | Gln | Thr | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Arg | Glu | Arg | Ala | Thr | Phe | Glu | Lys | Leu | Ser | Arg | Pro | Pro | Gly | Phe |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Tyr | Pro | His | Arg | Val | Leu | Phe | Gln | Asn | Ala | Gln | Gly | Gln | Phe | Leu | Tyr |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ala | Tyr | Arg | Cys | Val | Leu | Gly | Pro | His | Gln | Asp | Pro | Pro | Glu | Glu | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Glu | Leu | Leu | Leu | Gln | Asn | Leu | Gln | Ser | Arg | Gly | Pro | Arg | Asp | Cys | Val |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Val | Leu | Met | Ala | Ala | Ala | Gly | His | Phe | Ala | Gly | Ala | Ile | Phe | Gln | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |

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 260 265 270  
 Lys Asp Val Arg Asp Leu Leu Ala Gly Pro Ser Trp Ala Lys Ala Leu  
 275 280 285  
 Glu Glu Ala Gly Thr Ile Leu Leu Arg Ala Pro Arg Ser Gly Arg Ser  
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 <222> (903).. (1697)

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 <213> Homo sapiens

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| Met | Thr | Cys | Asn | Ser | Lys | Ile | Ser | Cys | Ile | Ser | Trp | Ser | Ser | Tyr | His |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Lys | Asn | Leu | Leu | Ala | Ser | Ser | Asp | Tyr | Glu | Gly | Thr | Val | Ile | Leu | Trp |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |     |
| Asp | Gly | Phe | Thr | Gly | Gln | Arg | Ser | Lys | Val | Tyr | Gln | Glu | His | Glu | Lys |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Arg | Cys | Trp | Ser | Val | Asp | Phe | Asn | Leu | Met | Asp | Pro | Lys | Leu | Leu | Ala |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ser | Gly | Ser | Asp | Asp | Ala | Lys | Val | Lys | Leu | Trp | Ser | Thr | Asn | Leu | Asp |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Asn | Ser | Val | Ala | Ser | Ile | Glu | Ala | Lys | Ala | Asn | Val | Cys | Cys | Val | Lys |
|     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |     |
| Phe | Ser | Pro | Ser | Ser | Arg | Tyr | His | Leu | Ala | Phe | Gly | Cys | Ala | Asp | His |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Cys | Val | His | Tyr | Tyr | Asp | Leu | Arg | Asn | Thr | Lys | Gln | Pro | Ile | Met | Val |
|     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Phe | Lys | Gly | His | Arg | Lys | Ala | Val | Ser | Tyr | Ala | Lys | Phe | Val | Ser | Gly |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Glu | Glu | Ile | Val | Ser | Ala | Ser | Thr | Asp | Ser | Gln | Leu | Lys | Leu | Trp | Asn |
| 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
| Val | Gly | Lys | Pro | Tyr | Cys | Leu | Arg | Ser | Phe | Lys | Gly | His | Ile | Asn | Glu |
|     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |     |
| Lys | Asn | Phe | Val | Gly | Leu | Ala | Ser | Asn | Gly | Asp | Tyr | Ile | Ala | Cys | Gly |
|     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |     |
| Ser | Glu | Asn | Asn | Ser | Leu | Tyr | Leu | Tyr | Tyr | Lys | Gly | Leu | Ser | Lys | Thr |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |

009270 69462960

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Leu | Leu | Thr | Phe | Lys | Phe | Asp | Thr | Val | Lys | Ser | Val | Leu | Asp | Lys | Asp |
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| His | Leu | Pro | Leu | Leu | Pro | Ala | Glu | Ser | Glu | Glu | Glu | Asp | Glu | Met | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Glu | Asp | Gln | Asp | Ser | Lys | Glu | Ala | Lys | Lys | Pro | Asn | Ile | Ile | Asn |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Asp | Thr | Ser | Leu | Pro | Thr | Ser | His | Thr | Tyr | Leu | Gly | Ala | Asp | Met |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Glu | Phe | His | Gly | Arg | Thr | Leu | His | Asp | Asp | Asp | Ser | Cys | Gln | Val |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Ile | Pro | Val | Leu | Pro | Gln | Val | Met | Met | Ile | Leu | Ile | Pro | Gly | Gln | Thr |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Leu | Pro | Leu | Gln | Leu | Phe | His | Pro | Gln | Glu | Val | Ser | Met | Val | Arg | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Ile | Gln | Lys | Asp | Arg | Thr | Phe | Ala | Val | Leu | Ala | Tyr | Ser | Asn | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Glu | Arg | Glu | Ala | Gln | Phe | Gly | Thr | Thr | Ala | Glu | Ile | Tyr | Ala | Tyr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gly | Arg | Gln | Arg | Phe | Lys | Val | Leu | Glu | Leu | Arg | Thr | Gln | Ser | Asp | Gly |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ile | Gln | Gln | Ala | Lys | Val | Gln | Ile | Leu | Pro | Glu | Cys | Val | Leu | Pro | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Thr | Met | Ser | Ala | Val | Gln | Leu | Glu | Ser | Leu | Asn | Lys | Cys | Gln | Ile | Phe |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Pro | Ser | Lys | Pro | Val | Ser | Arg | Glu | Asp | Gln | Cys | Ser | Tyr | Lys | Trp | Trp |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gln | Lys | Tyr | Gln | Lys | Arg | Lys | Phe | His | Cys | Ala | Asn | Leu | Thr | Ser | Trp |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Pro | Ser | Asn | Pro | Ile | Asp | Phe | Ser | Tyr | Arg | Val | Ala | Ala | Cys | Leu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Pro | Ile | Asp | Asp | Val | Leu | Arg | Ile | Gln | Leu | Leu | Lys | Ile | Gly | Ser | Ala |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ile | Phe | Ser | Leu | Ser | Leu | Cys | Gly | Pro | Met | Ala | Ala | Tyr | Val | Asn | Pro |
|     |     |     | 340 |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| His | Gly | Tyr | Val | His | Glu | Thr | Leu | Thr | Val | Tyr | Lys | Ala | Cys | Asn | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |

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| Met | Ala | Arg | Pro | Arg | Pro | Arg | Glu | Tyr | Lys | Ala | Gly | Asp | Leu | Val | Phe | 1   | 5   | 10  | 15  |
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| Thr | Gly | Tyr | Gln | Ala | Ile | Gln | Gln | Gln | Ser | Ser | Ser | Glu | Thr | Glu | Gly | 100 | 105 | 110 |     |
| Glu | Gly | Gly | Asn | Thr | Ala | Asp | Ala | Ser | Ser | Glu | Glu | Glu | Gly | Asp | Arg | 115 | 120 | 125 |     |
| Val | Glu | Glu | Asp | Gly | Lys | Gly | Lys | Arg | Lys | Asn | Glu | Lys | Ala | Gly | Ser | 130 | 135 | 140 |     |
| Lys | Arg | Lys | Lys | Ser | Tyr | Thr | Ser | Lys | Lys | Ser | Ser | Lys | Gln | Ser | Arg | 145 | 150 | 155 | 160 |
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|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |  |  |  |
| Leu | Leu | Asp | Ser | Asp | Gly | Glu | Phe | Leu | Pro | Val | Arg | Asp | Phe | Val | Ala |  |  |  |  |  |
|     |     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |  |  |  |  |  |
| Pro | His | Leu | Ala | Gln | Pro | Thr | Gly | Ser | Gln | Ser | Pro | Pro | Pro | Gly | Ser |  |  |  |  |  |
|     |     |     | 435 |     |     |     | 440 |     |     |     | 445 |     |     |     |     |  |  |  |  |  |
| Lys | Arg | Leu | Ala | Phe | Leu | Arg | Trp | Glu | Phe | Pro | Asn | Phe | Asn | Ser | Arg |  |  |  |  |  |
|     |     |     | 450 |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |  |  |  |
| Ser | Lys | Asp | Leu | Leu | Gly | Arg | Phe | Val | Leu | Ala | Arg | Arg | His | Ile | Val |  |  |  |  |  |
| 465 |     |     |     |     | 470 |     |     |     | 475 |     |     |     |     |     | 480 |  |  |  |  |  |
| Ala | Ala | Gly | Phe | Leu | Ile | Val | Asp | Val | Pro | Phe | Tyr | Glu |     |     |     |  |  |  |  |  |
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<400> 11310

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| gcctgacgtc | cacgtctacc  | gcacccctcc | gcgggctacc | aaccgtggct  | acagggtgc  | 120  |
| ggagtggcag | ctggaccagc  | catcatggag | tggccggctg | aggatcactg  | caaagggaca | 180  |
| gatggcctac | atcaagctgg  | aggacaggac | gtcaggggag | ctctttgctc  | aggccccggt | 240  |
| ggatcagttt | cctggcacag  | ctgtggagag | tgtgacggat | tccagcaggt  | acttcgtgat | 300  |
| ccgcacgcga | gatggaaatg  | ggcgacgggc | gtttattgga | attggcttcg  | gggaccgagg | 360  |
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| tgaatttgca | aaacaagccc  | agaaccaga  | ccaaggccct | aaactggacc  | tgggcttcaa | 480  |
| ggagggccag | accatcaagc  | tcaacatcgc | aaacatgaag | aagaagggaag | gagcagctgg | 540  |
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| ggggaaaacc | tccaccctga  | tccctcccc  | tggggagcag | ttggctgtgg  | ggggatccct | 660  |
| cgtccagcca | gcagttgctc  | ccagttcagg | aggtgctcct | gtaccctggc  | cacagcccaa | 720  |
| tcctgccact | gctgacatct  | ggggagactt | taccaaactc | acaggatcaa  | cttcagcca  | 780  |
| gaccagcca  | ggcacaggct  | gggtccagtt | ctgacctgag | cacggttttt  | cctcatgtga | 840  |
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| ggcctgtgtt | tggggcatga  | atctctctc  | tcctccttgt | ctggctctgt  | tgacaaaccg | 960  |
| ggcatgtttg | gcagtaaatt  | ggcacctgtg | cacatgatca | cagttcagcg  | ggaggctttc | 1020 |
| cgtaccaca  | ctggctgtag  | ccacttcagt | ccatctgccc | tccagaggag  | gggtttcttc | 1080 |
| ctgattttta | gcaggttttag | aggctgcagc | ttgagctaca | atcaggaggg  | aaattggaag | 1140 |
| gattagcagc | ttttaaaaat  | gtttaaatat | tttgctttgc | taatgtgctg  | atccgcacta | 1200 |
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| ttcctcactg | tgggcagctg  | ccctgagctt | caggcagcag | tgttcattct  | tggccagttg | 1320 |
| tctggtttcc | atgtattcta  | ggccaggtag | gcaacacaga | gccaaggcgg  | gtgctggaag | 1380 |
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| Met | Glu | Glu | Ser | Gly | Tyr | Glu | Ser | Val | Leu | Cys | Val | Lys | Pro | Asp | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| His | Val | Tyr | Arg | Ile | Pro | Pro | Arg | Ala | Thr | Asn | Arg | Gly | Tyr | Arg | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Glu | Trp | Gln | Leu | Asp | Gln | Pro | Ser | Trp | Ser | Gly | Arg | Leu | Arg | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Ala | Lys | Gly | Gln | Met | Ala | Tyr | Ile | Lys | Leu | Glu | Asp | Arg | Thr | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Glu | Leu | Phe | Ala | Gln | Ala | Pro | Val | Asp | Gln | Phe | Pro | Gly | Thr | Ala |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Val | Glu | Ser | Val | Thr | Asp | Ser | Ser | Arg | Tyr | Phe | Val | Ile | Arg | Ile | Glu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Asp | Gly | Asn | Gly | Arg | Arg | Ala | Phe | Ile | Gly | Ile | Gly | Phe | Gly | Asp | Arg |
|     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |     |
| Gly | Asp | Ala | Phe | Asp | Phe | Asn | Val | Ala | Leu | Gln | Asp | His | Phe | Lys | Trp |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Val | Lys | Gln | Gln | Cys | Glu | Phe | Ala | Lys | Gln | Ala | Gln | Asn | Pro | Asp | Gln |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Pro | Lys | Leu | Asp | Leu | Gly | Phe | Lys | Glu | Gly | Gln | Thr | Ile | Lys | Leu |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Asn | Ile | Ala | Asn | Met | Lys | Lys | Lys | Glu | Gly | Ala | Ala | Gly | Asn | Pro | Arg |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Val | Arg | Pro | Ala | Ser | Thr | Gly | Gly | Leu | Ser | Leu | Leu | Pro | Pro | Pro | Pro |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Gly | Gly | Lys | Thr | Ser | Thr | Leu | Ile | Pro | Pro | Pro | Gly | Glu | Gln | Leu | Ala |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Val | Gly | Gly | Ser | Leu | Val | Gln | Pro | Ala | Val | Ala | Pro | Ser | Ser | Gly | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     | 220 |     |     |     |     |     |
| Ala | Pro | Val | Pro | Trp | Pro | Gln | Pro | Asn | Pro | Ala | Thr | Ala | Asp | Ile | Trp |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |     |
| Gly | Asp | Phe | Thr | Lys | Ser | Thr | Gly | Ser | Thr | Ser | Ser | Gln | Thr | Gln | Pro |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     |     | 255 |     |
| Gly | Thr | Gly | Trp | Val | Gln | Phe |     |     |     |     |     |     |     |     |     |
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Leu Leu Leu Val Ala Lys Met Ser Val Glu His Leu Gly Leu Leu Ser  
50 55 60  
His Asp Gln Val Ala Met Pro Tyr Gln Trp Glu Tyr Pro Tyr Leu Leu  
65 70 75 80

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Leu Tyr Arg His Gly Lys Ala Tyr Arg Phe Leu Phe Gly Phe Ser Ala  
130 135 140  
Val Ser Ile Met His Leu Val Leu Val Leu Ala Val Gln Val His Ala  
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Thr | Phe | Glu | Gly | Phe | Cys | Ala | Leu | His | Leu | Ala | Ala | Ser | Gln | 1   | 5   | 10  | 15  |
| Gly | His | Trp | Lys | Ile | Val | Gln | Ile | Leu | Leu | Glu | Ala | Gly | Ala | Asp | Pro | 20  | 25  | 30  |     |
| Asn | Ala | Thr | Thr | Leu | Glu | Glu | Thr | Thr | Pro | Leu | Phe | Ser | Ala | Val | Glu | 35  | 40  | 45  |     |
| Asn | Gly | Gln | Ile | Asp | Val | Leu | Arg | Leu | Leu | Leu | Gln | His | Gly | Ala | Asn | 50  | 55  | 60  |     |
| Val | Asn | Gly | Ser | His | Ser | Met | Cys | Gly | Trp | Asn | Ser | Leu | His | Gln | Ala | 65  | 70  | 75  | 80  |
| Ser | Phe | Gln | Glu | Asn | Ala | Glu | Ile | Ile | Lys | Leu | Leu | Leu | Arg | Lys | Gly | 85  | 90  | 95  |     |
| Ala | Asn | Lys | Glu | Cys | Gln | Asp | Asp | Phe | Gly | Ile | Thr | Pro | Leu | Phe | Val | 100 | 105 | 110 |     |
| Ala | Ala | Gln | Tyr | Gly | Lys | Leu | Glu | Ser | Leu | Ser | Ile | Leu | Ile | Ser | Ser | 115 | 120 | 125 |     |
| Gly | Ala | Asn | Val | Asn | Cys | Gln | Ala | Leu | Asp | Lys | Ala | Thr | Pro | Leu | Phe | 130 | 135 | 140 |     |
| Ile | Ala | Ala | Gln | Glu | Gly | His | Thr | Lys | Cys | Val | Glu | Leu | Leu | Leu | Ser | 145 | 150 | 155 | 160 |
| Ser | Gly | Ala | Asp | Pro | Asp | Leu | Tyr | Cys | Asn | Glu | Asp | Ser | Trp | Gln | Leu | 165 | 170 | 175 |     |
| Pro | Ile | His | Ala | Ala | Ala | Gln | Met | Gly | His | Thr | Lys | Ile | Leu | Asp | Leu | 180 | 185 | 190 |     |
| Leu | Ile | Pro | Leu | Thr | Asn | Arg | Ala | Cys | Asp | Thr | Gly | Leu | Asn | Lys | Val | 195 | 200 | 205 |     |
| Ser | Pro | Val | Tyr | Ser | Ala | Val | Phe | Gly | Gly | His | Glu | Asp | Cys | Leu | Glu | 210 | 215 | 220 |     |
| Ile | Leu | Leu | Arg | Asn | Gly | Tyr | Ser | Pro | Asp | Ala | Gln | Ala | Cys | Leu | Val | 225 | 230 | 235 | 240 |
| Phe | Gly | Phe | Ser | Ser | Pro | Val | Cys | Met | Ala | Phe | Gln | Lys | Asp | Cys | Glu | 245 | 250 | 255 |     |
| Phe | Phe | Gly | Ile | Val | Asn | Ile | Leu | Leu | Lys | Tyr | Gly | Ala | Gln | Ile | Asn | 260 | 265 | 270 |     |

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Tyr Glu Phe Val Asn His Ala Ile Lys Ala Gln Ala Lys Tyr Lys Glu  
305 310 315 320  
Trp Leu Pro His Leu Leu Val Ala Gly Phe Asp Pro Leu Ile Leu Leu  
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Cys Asn Ser Trp Ile Asp Ser Val Ser Ile Asp Thr Leu Ile Phe Thr  
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355 360 365  
Leu Ser Ala Arg Ala Ser Asn Ala Trp Ile Leu Gln Gln His Ile Ala  
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Thr Val Pro Ser Leu Thr His Leu Cys Arg Leu Glu Ile Arg Ser Ser  
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 <212> PRT  
 <213> Homo sapiens

<400> 11317

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Arg | Gln | Lys | Arg | Lys | Gly | Asp | Leu | Gly | Pro | Ala | Glu | Leu | Met | Met |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Thr | Ile | Gly | Asp | Val | Ile | Lys | Gln | Leu | Ile | Glu | Ala | His | Glu | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gly | Lys | Asp | Ile | Asp | Leu | Asn | Lys | Val | Lys | Thr | Lys | Thr | Ala | Ala | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Tyr | Gly | Leu | Ser | Ala | Gln | Pro | Arg | Leu | Val | Asp | Ile | Ile | Ala | Ala | Val |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Pro | Pro | Gln | Tyr | Arg | Lys | Val | Leu | Met | Pro | Lys | Leu | Lys | Ala | Lys | Pro |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Ile | Arg | Thr | Ala | Ser | Gly | Ile | Ala | Val | Val | Ala | Val | Met | Cys | Lys | Pro |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     | 95  |     |     |
| His | Arg | Cys | Pro | His | Ile | Ser | Phe | Thr | Gly | Asn | Ile | Cys | Val | Tyr | Cys |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Pro | Gly | Gly | Pro | Asp | Ser | Asp | Phe | Glu | Tyr | Ser | Thr | Gln | Ser | Tyr | Thr |
|     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Gly | Tyr | Glu | Pro | Thr | Ser | Met | Arg | Ala | Ile | Arg | Ala | Arg | Tyr | Asp | Pro |
|     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |     |
| Phe | Leu | Gln | Thr | Arg | His | Arg | Ile | Glu | Gln | Leu | Lys | Gln | Leu | Gly | His |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Ser | Val | Asp | Lys | Val | Glu | Phe | Ile | Val | Met | Gly | Gly | Thr | Phe | Met | Ala |

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<213> Homo sapiens

<400> 11318

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<222> (73).. (621)

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<210> 11320  
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<400> 11320

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| Met | Ser | Arg | Tyr | Leu | Arg | Pro | Pro | Asn | Thr | Ser | Leu | Phe | Val | Arg | Asn |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Val | Ala | Asp | Asp | Thr | Arg | Ser | Glu | Asp | Leu | Arg | Arg | Glu | Phe | Gly | Arg |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |     |
| Tyr | Gly | Pro | Ile | Val | Asp | Val | Tyr | Val | Pro | Leu | Asp | Phe | Tyr | Thr | Arg |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Arg | Pro | Arg | Gly | Phe | Ala | Tyr | Val | Gln | Phe | Glu | Asp | Val | Arg | Asp | Ala |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Glu | Asp | Ala | Leu | His | Asn | Leu | Asp | Arg | Lys | Trp | Ile | Cys | Gly | Arg | Gln |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Ile | Glu | Ile | Gln | Phe | Ala | Gln | Gly | Asp | Arg | Lys | Thr | Pro | Asn | Gln | Met |

000220 6946960



85 90 95  
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Tyr Asp Arg Tyr Arg Arg Ser Arg Ser Arg Ser Tyr Glu Arg Arg Arg  
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130 135 140  
Arg Asn Ser Arg Pro Thr Gly Arg Pro Arg Arg Ser Arg Ser His Ser  
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| Met | Ser | Leu | Val | Ala | Glu | Ala | Phe | Val | Ser | Gln | Ile | Ala | Ala | Ala | Glu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Pro | Trp | Pro | Glu | Asn | Ala | Thr | Leu | Tyr | Gln | Gln | Leu | Lys | Gly | Glu | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Leu | Leu | Ser | Asp | Asn | Ala | Ala | Ser | Leu | Ala | Val | Gln | Ala | Phe | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gln | Met | Cys | Asn | Leu | Pro | Ile | Lys | Val | Val | Cys | Arg | Ala | Asn | Ala | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Tyr | Met | Ser | Pro | Ser | Gly | Lys | Val | Pro | Phe | Ile | His | Val | Gly | Asn | Gln |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Val | Val | Ser | Gly | Leu | Gly | Pro | Ile | Val | Gln | Phe | Val | Lys | Ala | Lys | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| His | Ser | Leu | Ser | Asp | Gly | Leu | Glu | Glu | Val | Gln | Lys | Ala | Glu | Met | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Tyr | Met | Glu | Leu | Val | Asn | Asn | Met | Leu | Leu | Thr | Ala | Glu | Leu | Tyr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Gln | Trp | Cys | Asp | Glu | Ala | Thr | Val | Gly | Glu | Ile | Thr | His | Ala | Arg |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Tyr | Gly | Ser | Pro | Tyr | Pro | Trp | Pro | Leu | Asn | His | Ile | Leu | Ala | Tyr | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Lys | Gln | Trp | Glu | Val | Lys | Arg | Lys | Met | Lys | Ala | Ile | Gly | Trp | Gly | Lys |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Lys | Thr | Leu | Asp | Gln | Val | Leu | Glu | Asp | Val | Asp | Gln | Cys | Cys | Gln | Ala |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Ser | Gln | Arg | Leu | Gly | Thr | Gln | Pro | Tyr | Phe | Phe | Asn | Lys | Gln | Pro |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Thr | Glu | Leu | Gly | Ala | Leu | Val | Phe | Gly | His | Leu | Tyr | Thr | Ile | Leu | Thr |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Thr | Gln | Leu | Thr | Asn | Asp | Glu | Leu | Ser | Glu | Lys | Val | Lys | Asn | Tyr | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asn | Leu | Leu | Ala | Phe | Cys | Arg | Arg | Ile | Glu | Gln | His | Tyr | Phe | Glu | Asp |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Gly | Lys | Gly | Arg | Leu | Ser |     |     |     |     |     |     |     |     |     |
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Ala Leu Ala Asp Asp Leu Glu Trp Lys Ile Ile Tyr Val Gly Ser Ala
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Glu Ser Glu Glu Phe Asp Gln Ile Leu Asp Ser Val Leu Val Gly Pro
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008220" 69462960

|   |     |     |
|---|-----|-----|
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| 65  | 70  | 75  |
| Pro Ser Leu Ile Pro Glu Thr Asp Ala Val Gly Val Thr Val Val Leu |     |     |
|   | 85  | 90  |
| Ile Thr Cys Thr Tyr His Gly Gln Glu Phe Ile Arg Val Gly Tyr Tyr |     |     |
|   | 100 | 105 |
| Val Asn Asn Glu Tyr Leu Asn Pro Glu Leu Arg Glu Asn Pro Pro Met |     |     |
|   | 115 | 120 |
| Lys Pro Asp Phe Ser Gln Leu Gln Arg Asn Ile Leu Ala Ser Asn Pro |     |     |
|   | 130 | 135 |
| Arg Val Thr Arg Phe His Ile Asn Trp Asp Asn Asn Met Asp Arg Leu |     |     |
|   | 145 | 150 |
| Glu Ala Ile Glu Thr Gln Asp Pro Ser Leu Gly Cys Gly Leu Pro Leu |     |     |
|   | 165 | 170 |
| Asn Cys Thr Pro Ile Lys Gly Leu Gly Leu Pro Gly Cys Ile Pro Gly |     |     |
|   | 180 | 185 |
| Leu Leu Pro Glu Asn Ser Met Asp Cys Ile                         |     |     |
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<400> 11325

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| ccatgagctg  | gattcctttt  | aagattgggc  | agcccaagaa  | acagattgtg | cccaaaacac | 120  |
| catgtcaaaa  | tctgccgtga  | agatatcctt  | ggacttactc  | tccaatcccc | tctgtgagca | 180  |
| agaccaggac  | cttctgaaca  | tgggtgacggc | cctggacacg  | gocatgaagc | ggatggatgc | 240  |
| cttcaatcag  | gaaaagggtga | accagatcca  | gaagactgtg  | atcgagccct | taaaaaagtt | 300  |
| cggcagtgtc  | ttcccagagcc | tcattcatggc | tgtgaagagg  | cgggaacagg | ccttgcagga | 360  |
| ctacaggagg  | ctgcaggcca  | aggtggagaa  | gtatgaggaa  | aaggagaaga | cggggccagt | 420  |
| gctggccaag  | ctccaccagg  | cacgagagga  | gctgcggcct  | gtcggggagg | actttgaagc | 480  |
| caagaacagg  | cagctgctgg  | aggagatgcc  | gcgcttctac  | ggcagccgcc | tcgactactt | 540  |
| ccagcccagc  | tttgagtccc  | tcattccgagc | tcaggttgtg  | tactactcgg | aaatgcacaa | 600  |
| gatcttttga  | gacctgtccc  | atcagcttga  | ccagccaggc  | cactccgatg | agcagcggga | 660  |
| gcggggagaac | gaggccaaac  | tcagttagct  | ccggggccctc | tccattgttg | ccgatgactg | 720  |
| aatccccgtc  | actcttggag  | gactcctgtg  | acgttggtcag | cctcattcat | ccttgccttt | 780  |
| ctcaggggcta | gctgctcctc  | tcacaggctg  | gggacagagg  | tggccctggg | tcacttgccg | 840  |
| gcccttttga  | atgaatgact  | cttcctgagc  | ctggcaccag  | gagccctagg | caggccgccg | 900  |
| tctccccact  | cacagcccca  | gcaggtaagc  | agtgtagaca  | aacccttggg | gcttttttat | 960  |
| ttggagaacc  | gtccagcatg  | catcctggcc  | cacggcctga  | gcaagctgca | gcccttctga | 1020 |

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ggccatgggc ttcgttggct aagttagggg tottagcctt gcatgcgttg tgggcatcaa 1080
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aaaacctctt ttttctggga gaggccctga accctgtgcg ggagagctgg tcctccagcc 1200
ctggcaggcc ctcagccagc ttcccagcaa gacaaagggc acccttgttg ctttgggacc 1260
taagtgggtg gggttccga ggtcactgag gactggtacc tcgggaacgc aagctgtcag 1320
tggaactgtc ccacaagaat tcacaggtct caaagcagga acagtgggtt tgtgtctcac 1380
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Thr Ala Met Lys Arg Met Asp Ala Phe Asn Gln Glu Lys Val Asn Gln
              35              40              45
Ile Gln Lys Thr Val Ile Glu Pro Leu Lys Lys Phe Gly Ser Val Phe
              50              55              60
Pro Ser Leu Ile Met Ala Val Lys Arg Arg Glu Gln Ala Leu Gln Asp
              65              70              75              80
Tyr Arg Arg Leu Gln Ala Lys Val Glu Lys Tyr Glu Glu Lys Glu Lys
              85              90              95
Thr Gly Pro Val Leu Ala Lys Leu His Gln Ala Arg Glu Glu Leu Arg
              100              105              110
Pro Val Arg Glu Asp Phe Glu Ala Lys Asn Arg Gln Leu Leu Glu Glu
              115              120              125
Met Pro Arg Phe Tyr Gly Ser Arg Leu Asp Tyr Phe Gln Pro Ser Phe
              130              135              140
Glu Ser Leu Ile Arg Ala Gln Val Val Tyr Tyr Ser Glu Met His Lys
              145              150              155              160
Ile Phe Gly Asp Leu Ser His Gln Leu Asp Gln Pro Gly His Ser Asp
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|     | 20  |     | 25  |     | 30  |     |     |     |     |     |     |     |     |     |     |
| Leu | Cys | Lys | Glu | Ile | Leu | Pro | Phe | Thr | Asp | Arg | Lys | Gln | Ala | Val | Cys |
|     | 35  |     | 40  |     | 45  |     |     |     |     |     |     |     |     |     |     |
| Ser | Asn | Gly | His | Ile | Trp | Leu | Arg | Cys | Phe | Leu | Thr | Tyr | Gln | Ser | Cys |
|     | 50  |     | 55  |     | 60  |     |     |     |     |     |     |     |     |     |     |
| Gln | Ser | Leu | Ile | Tyr | Arg | Arg | Cys | Leu | Leu | His | Asp | Ser | Ile | Ala | Arg |
|     | 65  |     | 70  |     | 75  |     |     |     |     |     |     |     |     |     | 80  |
| His | Pro | Ala | Pro | Glu | Asp | Pro | Asp | Trp | Ile | Lys | Arg | Leu | Leu | Gln | Ser |
|     |     |     | 85  |     | 90  |     |     |     |     |     |     |     |     | 95  |     |
| Pro | Cys | Pro | Phe | Cys | Asp | Ser | Pro | Val | Phe |     |     |     |     |     |     |
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| cctgaaccag  | gtgaataacc | aagggctgac  | ccgctgcac   | ctggcctgcc  | agctggggaa  | 120  |
| gcaggagatg  | gtccgcgtgc | tgctgctgtg  | caatgctcgg  | tgcaacatca  | tgggccccaa  | 180  |
| cggctacccc  | atccactcgg | ccatgaagtt  | ctctcagaag  | gggtgtgcgg  | agatgatcat  | 240  |
| cagcatggac  | agcagccaga | tccacagcaa  | agacccccgt  | tacggagcca  | gccccctcca  | 300  |
| ctgggccaag  | aacgcagaga | tggcccgcct  | gctgctgaaa  | cggggctgca  | acgtgaacag  | 360  |
| caccagctcc  | gcggggaaca | cggccctgca  | cgtggcggtg  | atgcgcaacc  | gcttcgactg  | 420  |
| tgccatagtg  | ctgctgaccc | acggggccaa  | cgcggatgcc  | cgcggagagc  | acggcaacac  | 480  |
| cccgtctcac  | ctggccatgt | cgaagacaaa  | cgtggagatg  | atcaaggccc  | tcatcgtgtt  | 540  |
| cggagcagaa  | gtggacaccc | cgaatgactt  | tggggagact  | cctacattcc  | tagcctccaa  | 600  |
| aatcggcaga  | cttgtcacca | ggaaggcgat  | cttgactctg  | cgcgagaaccg | tgggggcccga | 660  |
| atactgcttc  | ccacccatcc | acgggggtccc | cgcggagcag  | ggctctgcag  | cgcacatca   | 720  |
| tcccttctcc  | ctggaaagag | ctcagccccc  | accgatcagc  | ctaaacaacc  | tagaactaca  | 780  |
| ggatctcatg  | cacatctcac | gggcccggaa  | gccagcgttc  | atcctgggct  | ccatgaggga  | 840  |
| cgcagaagcgg | accacagacc | acctgctgtg  | cctggatgga  | ggaggagtga  | aaggcctcat  | 900  |
| catcatccag  | ctcctcatcg | ccatcgagaa  | ggcctcgggt  | gtggccacca  | aggacctgtt  | 960  |
| tgactgggtg  | gcgggcacca | gcactggagg  | catcctggcc  | ctggccattc  | tgcacagtaa  | 1020 |
| gtccatggcc  | tacatgcgcg | gcattgtactt | tgcattgaag  | gatgagggtg  | tccggggctc  | 1080 |
| caggccctac  | gagtcggggc | ccctggagga  | gttcttgaag  | cgggagtttg  | gggagcacac  | 1140 |
| caagatgacg  | gacgtcagga | aacccaaggt  | gatgctgaca  | gggacactgt  | ctgaccggca  | 1200 |
| gccggctgaa  | ctccacctct | tccggaacta  | cgatgctcca  | gaaactgtcc  | gggagcctcg  | 1260 |
| tttcaaccag  | aacgttaacc | tcaggcctgc  | agggctgcct  | ctgccccttt  | ccctgactgt  | 1320 |
| caaggacaac  | tgactcccc  | atcagctcct  | acttacttcc  | gacccaatgg  | gcgcttctctg | 1380 |
| gacgggtgggc | tgctggccaa | caacccacag  | ctggatgcca  | tgaccgagat  | ccatgagtac  | 1440 |
| aatcaggacc  | tgatccgcaa | gggtcaggcc  | aacaagggtga | agaaactctc  | catcgttgtc  | 1500 |

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|   |     |     |
|---|-----|-----|
| 195   | 200 | 205 |
| Pro Ile Ser Leu Asn Asn Leu Glu Leu Gln Asp Leu Met His Ile Ser |     |     |
| 210   | 215 | 220 |
| Arg Ala Arg Lys Pro Ala Phe Ile Leu Gly Ser Met Arg Asp Glu Lys |     |     |
| 225   | 230 | 235 |
| Arg Thr His Asp His Leu Leu Cys Leu Asp Gly Gly Gly Val Lys Gly |     |     |
|   | 245 | 250 |
| Leu Ile Ile Ile Gln Leu Leu Ile Ala Ile Glu Lys Ala Ser Gly Val |     |     |
|   | 260 | 265 |
| Ala Thr Lys Asp Leu Phe Asp Trp Val Ala Gly Thr Ser Thr Gly Gly |     |     |
|   | 275 | 280 |
| Ile Leu Ala Leu Ala Ile Leu His Ser Lys Ser Met Ala Tyr Met Arg |     |     |
| 290   | 295 | 300 |
| Gly Met Tyr Phe Arg Met Lys Asp Glu Val Phe Arg Gly Ser Arg Pro |     |     |
| 305   | 310 | 315 |
| Tyr Glu Ser Gly Pro Leu Glu Glu Phe Leu Lys Arg Glu Phe Gly Glu |     |     |
|   | 325 | 330 |
| His Thr Lys Met Thr Asp Val Arg Lys Pro Lys Val Met Leu Thr Gly |     |     |
|   | 340 | 345 |
| Thr Leu Ser Asp Arg Gln Pro Ala Glu Leu His Leu Phe Arg Asn Tyr |     |     |
|   | 355 | 360 |
| Asp Ala Pro Glu Thr Val Arg Glu Pro Arg Phe Asn Gln Asn Val Asn |     |     |
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| Leu Arg Pro Ala Gly Leu Pro Leu Pro Leu Ser Leu Thr Val Lys Asp |     |     |
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| Asn   |     | 400 |

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 caagtcaatt gttgggatga ctatgtataa tcaagccaca caggaaattg caaaaccttc 180  
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 gcagattgat attacaagag tatttaataa tgtgcttctt caacaaacac aacatttaga 300  
 cagtcattgga gagccaacca ttacaagtct atacacaaat tggatatttg aaactttgtt 360  
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 acctacagaa aatgaattaa cattcaatgc agaggaatat totgacatat cagaaatgag 480  
 gtcattatca gaactactag gcccatatgg tatgaagttt ctaagtgaat gccttatgtg 540

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| gcattagaag  | atgccagaat  | aaaccttttg  | aaagagacag | agcaacttga  | aattaaagaa  | 240  |
| gtccacatag  | agaagaatga  | tgctgaaaca  | ttgcagaaat | gtcttatttt  | gtgctatgaa  | 300  |
| ctgttgaagc  | agatgtccat  | ttcaacaggc  | ttaagtgcaa | ccatgaatgg  | aatcatcgaa  | 360  |
| tctttgattc  | ttcctggaat  | aataagtatt  | catcctgttg | taagaaacct  | ggctgtttta  | 420  |
| tgcttgggat  | gctgtggact  | acagaatcag  | gattttgcaa | ggaaacactt  | cgtattacta  | 480  |
| ttgcagggtt  | tgcaaattga  | tgatgtcaca  | ataaaaataa | gtgctttaaa  | ggcaatcttt  | 540  |
| gaccaactga  | tgacgttcgg  | gattgaacca  | tttaaaacta | aaaaaatcaa  | aacacttcat  | 600  |
| tgtgaaggta  | cagaaataaa  | cagtgatgat  | gagcaagaat | caaaagaagt  | tgaagagact  | 660  |
| gctacagcta  | agaatgttct  | gaaactcctt  | tctgatttct | tagatagtga  | ggtatctgaa  | 720  |
| cttaggaactg | gagctgcaga  | aggactagcc  | aagctgatgt | tctctgggct  | tttggtcagc  | 780  |
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| tcttctcctt  | tagctgaaat  | tgatatcaca  | aatgttgctg | agttacttgt  | agatttgaca  | 1020 |
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| catgacaatt  | tggtctatgaa | aatttgcgat  | gagatcttaa | caagtccgtg  | ctcgccagaa  | 1140 |
| attcgagtct  | atacaaaagc  | cttgagttct  | ttagaactca | gtagccatct  | tgcaaaagat  | 1200 |
| cttctgggtc  | tattgaatga  | gattctggag  | caagtaaaag | ataggacatg  | tctgagagct  | 1260 |
| ttggagaaaa  | tcaagattca  | gtagaaaaaa  | ggaaataaag | aatttgggtga | ccaagctgaa  | 1320 |
| gcagcacagg  | atgccacctt  | gactacaact  | actttccaaa | atgaagatga  | aaagaataaa  | 1380 |
| gaagtatata  | tgactccact  | caggggtgta  | aaagcaaccc | aagcatcaaa  | gtctactcag  | 1440 |
| ctaaagacta  | acagaggaca  | gagaaaagtg  | acagtttcag | ctaggacgaa  | caggagggtgt | 1500 |
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| aagatgagac  | taccaagacg  | agccaaaacc  | gcagcactag | aaaaaagtaa  | acttaacctt  | 1620 |
| goccaaatttc | tcaatgaaga  | tctaagttag  | gaaagacgat | ggagggtggaa | tcotttaaga  | 1680 |
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| ctgatgtctt  | tctgaagatt  | ttctgctgtg  | cgcttccacg | ttactttggc  | ctgtattaaa  | 1800 |
| gcagtagagc  | agcatcagtt  | attatagtcc  | agaaaaagtg | cgcatcagtc  | agtcacacag  | 1860 |
| atttatcaca  | atctgagggtg | ggcctaggaa  | tctcattttt | aaatagtctc  | tccaaagtgt  | 1920 |
| totttatgaac | tctttatgtt  | taaaatcatg  | tcattatgga | aaacttacaa  | gtgtaactag  | 1980 |
| ctagtagctt  | gcattttgaga | agcttatgac  | ttagatgggc | agaatcaaca  | aagatgaaac  | 2040 |
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| ttattttgac  | aaaaacttat  | tttgtgattc  | ctacagtga  | aacatttttg  | gtgatattctg | 2220 |
| cctgggaaat  | ctctcttcct  | aaagtatttg  | tatatgggag | tccttgtttg  | tgaatgtttc  | 2280 |
| ctggattagg  | gaggtgtcaa  | cataaatgta  | ttattaacca | tgaagctgct  | cgctatatatt | 2340 |
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| tttcttgtct  | tttgaaattg  | acacttggcc  | tgacttacga | aacttgtact  | atatgaaatt  | 2520 |
| ggtcctcttt  | tctgcaatac  | ccaacgaaac  | accttttctc | tttattatto  | agaaatgtcc  | 2580 |
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| ccatttactt  | aaggtgaaat  | tttaagatgg  | agctaaagta | agatcactgg  | tttttagaac  | 2700 |
| caaattgcta  | tacatatgtg  | cctcatagaa  | cttataaaag | gagtcaaaagt | ttcaaagcaa  | 2760 |
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| ttgttttaaa  | gacaatttgc  | aggggggttg  | gagaaggact | gaaaaggtag  | attaagtgtg  | 2940 |
| ctgtaaggaa  | aagtcttaga  | aacataataa  | gctaaaatcc | cattcacaca  | tggccaggct  | 3000 |

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35 40 45  
Glu Gln Leu Glu Ile Lys Glu Val His Ile Glu Lys Asn Asp Ala Glu  
50 55 60  
Thr Leu Gln Lys Cys Leu Ile Leu Cys Tyr Glu Leu Leu Lys Gln Met  
65 70 75 80  
Ser Ile Ser Thr Gly Leu Ser Ala Thr Met Asn Gly Ile Ile Glu Ser  
85 90 95  
Leu Ile Leu Pro Gly Ile Ile Ser Ile His Pro Val Val Arg Asn Leu  
100 105 110  
Ala Val Leu Cys Leu Gly Cys Cys Gly Leu Gln Asn Gln Asp Phe Ala  
115 120 125  
Arg Lys His Phe Val Leu Leu Gln Val Leu Gln Ile Asp Asp Val  
130 135 140  
Thr Ile Lys Ile Ser Ala Leu Lys Ala Ile Phe Asp Gln Leu Met Thr  
145 150 155 160  
Phe Gly Ile Glu Pro Phe Lys Thr Lys Lys Ile Lys Thr Leu His Cys  
165 170 175  
Glu Gly Thr Glu Ile Asn Ser Asp Asp Glu Gln Glu Ser Lys Glu Val  
180 185 190  
Glu Glu Thr Ala Thr Ala Lys Asn Val Leu Lys Leu Leu Ser Asp Phe  
195 200 205  
Leu Asp Ser Glu Val Ser Glu Leu Arg Thr Gly Ala Ala Glu Gly Leu  
210 215 220  
Ala Lys Leu Met Phe Ser Gly Leu Leu Val Ser Ser Arg Ile Leu Ser  
225 230 235 240  
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245 250 255  
Leu Arg His Cys Leu Gly Val Phe Phe Pro Val Phe Ala Tyr Ala Ser  
260 265 270  
Arg Thr Asn Gln Glu Cys Phe Glu Glu Ala Phe Leu Pro Thr Leu Gln  
275 280 285  
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Asn | Val | Ala | Glu | Leu | Leu | Val | Asp | Leu | Thr | Arg | Pro | Ser | Gly | Leu |
| 305 |     |     |     |     | 310 |     |     |     | 315 |     |     |     |     |     | 320 |
| Asn | Pro | Gln | Ala | Lys | Thr | Ser | Gln | Asp | Tyr | Gln | Ala | Leu | Thr | Val | His |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Asp | Asn | Leu | Ala | Met | Lys | Ile | Cys | Asp | Glu | Ile | Leu | Thr | Ser | Pro | Cys |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Pro | Glu | Ile | Arg | Val | Tyr | Thr | Lys | Ala | Leu | Ser | Ser | Leu | Glu | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Ser | Ser | His | Leu | Ala | Lys | Asp | Leu | Leu | Val | Leu | Leu | Asn | Glu | Ile | Leu |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Glu | Gln | Val | Lys | Asp | Arg | Thr | Cys | Leu | Arg | Ala | Leu | Glu | Lys | Ile | Lys |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Ile | Gln | Leu | Glu | Lys | Gly | Asn | Lys | Glu | Phe | Gly | Asp | Gln | Ala | Glu | Ala |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Ala | Gln | Asp | Ala | Thr | Leu | Thr | Thr | Thr | Thr | Phe | Gln | Asn | Glu | Asp | Glu |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Lys | Asn | Lys | Glu | Val | Tyr | Met | Thr | Pro | Leu | Arg | Gly | Val | Lys | Ala | Thr |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Gln | Ala | Ser | Lys | Ser | Thr | Gln | Leu | Lys | Thr | Asn | Arg | Gly | Gln | Arg | Lys |
|     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Val | Thr | Val | Ser | Ala | Arg | Thr | Asn | Arg | Arg | Cys | Gln | Thr | Ala | Glu | Ala |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Asp | Ser | Glu | Ser | Asp | His | Glu | Val | Pro | Glu | Pro | Glu | Ser | Glu | Met | Lys |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Met | Arg | Leu | Pro | Arg | Arg | Ala | Lys | Thr | Ala | Ala | Leu | Glu | Lys | Ser | Lys |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Leu | Asn | Leu | Ala | Gln | Phe | Leu | Asn | Glu | Asp | Leu | Ser |     |     |     |     |
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 <213> Homo sapiens

<400> 11338

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Gly | Leu | Tyr | Phe | Gln | Gln | Ser | Ser | Thr | Asp | Glu | Glu | Ile | Thr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Phe | Val | Phe | Gln | Glu | Lys | Glu | Asp | Leu | Pro | Val | Thr | Glu | Asp | Asn | Phe |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Val | Lys | Leu | Gln | Val | Lys | Ala | Cys | Ala | Leu | Ser | Gln | Ile | Asn | Thr | Lys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Leu | Ala | Glu | Met | Lys | Met | Lys | Lys | Asp | Leu | Phe | Pro | Val | Gly | Arg |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Ile | Ala | Gly | Ile | Val | Leu | Asp | Val | Gly | Ser | Lys | Val | Pro | Phe | Phe |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Gln | Pro | Asp | Asp | Glu | Val | Val | Gly | Thr | Leu | Pro | Leu | Asp | Ser | Glu | Asp |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Pro | Gly | Leu | Cys | Glu | Val | Val | Arg | Val | His | Glu | His | Tyr | Leu | Val | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Lys | Pro | Glu | Lys | Val | Thr | Trp | Thr | Glu | Ala | Ala | Gly | Ser | Ile | Arg | Asp |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Val | Arg | Ala | Tyr | Thr | Ala | Leu | His | Tyr | Leu | Ser | His | Leu | Ser | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Lys | Ser | Val | Leu | Ile | Met | Asp | Gly | Ala | Ser | Ala | Phe | Gly | Thr | Ile |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Ala | Ile | Gln | Leu | Ala | His | His | Arg | Gly | Ala | Lys | Val | Ile | Ser | Thr | Ala |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Cys | Ser | Leu | Glu | Asp | Lys | Gln | Cys | Leu | Glu | Arg | Phe | Arg | Pro | Pro | Ile |

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| Ala Arg Val Ile Asp Val Ser Asn Gly Lys Val His Val Ala Glu Ser |     |     |     |     |     |
| 195   |     |     | 200 |     | 205 |
| Cys Leu Glu Glu Thr Gly Gly Leu Gly Val Asp Ile Val Leu Asp Ala |     |     |     |     |     |
| 210   |     |     | 215 |     | 220 |
| Gly Val Arg Leu Tyr Ser Lys Asp Asp Glu Pro Ala Val Lys Leu Gln |     |     |     |     |     |
| 225   |     |     | 230 |     | 235 |
| Leu Leu Pro His Lys His Asp Ile Ile Thr Leu Leu Gly Val Gly Gly |     |     |     |     |     |
|   | 245 |     | 250 |     | 255 |
| His Trp Val Thr Thr Glu Glu Asn Leu Gln Leu Asp Pro Pro Asp Ser |     |     |     |     |     |
|   | 260 |     | 265 |     | 270 |
| His Cys Leu Phe Leu Lys Gly Ala Thr Leu Ala Phe Leu Asn Asp Glu |     |     |     |     |     |
|   | 275 |     | 280 |     | 285 |
| Val Trp Asn Leu Ser Asn Val Gln Gln Gly Glu Tyr Leu Ser Thr Tyr |     |     |     |     |     |
|   | 290 |     | 295 |     | 300 |
| Leu Lys Gly Cys Asp Gly Glu Val Ile Asn Trp Cys Phe Gln Thr Ser |     |     |     |     |     |
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| Met | Ala | Gly | Phe | Ala | Glu | Leu | Gly | Leu | Ser | Ser | Trp | Leu | Val | Glu | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Cys | Arg | Gln | Leu | Gly | Leu | Lys | Lys | Pro | Thr | Pro | Val | Gln | Leu | Gly | Cys |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Pro | Ala | Ile | Leu | Glu | Gly | Arg | Asp | Cys | Leu | Gly | Cys | Ala | Lys | Thr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Ser | Gly | Lys | Thr | Ala | Ala | Phe | Val | Leu | Pro | Ile | Leu | Gln | Lys | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Glu | Asp | Pro | Tyr | Gly | Ile | Phe | Cys | Leu | Val | Leu | Thr | Pro | Thr | Arg |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Leu | Ala | Tyr | Gln | Ile | Ala | Glu | Arg | Phe | Arg | Val | Leu | Gly | Lys | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Gly | Leu | Lys | Asp | Cys | Ile | Ile | Val | Gly | Gly | Met | Asp | Met | Val | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Gln | Ala | Leu | Glu | Leu | Ser | Arg | Lys | Pro | His | Val | Val | Ile | Ala | Thr | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Arg | Leu | Ala | Asp | His | Leu | Arg | Ser | Ser | Asn | Thr | Phe | Ser | Ile | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Ile | Arg | Phe | Leu | Val | Met | Asp | Glu | Ala | Asp | Arg | Leu | Leu | Glu | Gln |
|     | 145 |     |     |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |
| Gly | Cys | Thr | Asp | Phe | Thr | Val | Asp | Leu | Glu | Ala | Ile | Leu | Ala | Ala | Val |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Ala | Arg | Arg | Gln | Thr | Leu | Leu | Phe | Ser | Ala | Thr | Leu | Thr | Asp | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Leu | Arg | Glu | Leu | Gln | Gly | Leu | Ala | Thr | Asn | Gln | Pro | Phe | Phe | Trp | Glu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ala | Gln | Ala | Pro | Val | Ser | Thr | Val | Glu | Gln | Leu | Asp | Gln | Arg | Tyr | Leu |

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| 210   |     | 215 |     | 220 |
| Leu Val Pro Glu Lys Val Lys Asp Ala Tyr Leu Val His Leu Ile Gln |     |     |     |     |
| 225   |     | 230 |     | 235 |
| Arg Phe Gln Asp Glu His Glu Asp Trp Ser Ile Ile Ile Phe Thr Asn |     |     |     |     |
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| Thr   |     |     |     |     |

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Val Tyr Tyr Asn Glu Ser Ser Ser Gln Lys Tyr Val Pro Arg Ala Ala  
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| Met | Val | Arg | Thr | Leu | Glu | Arg | Lys | Leu | Glu | Ala | Lys | Met | Ile | Lys | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Ser | Asp | Tyr | His | Asp | Leu | Glu | Ser | Val | Val | Gln | Gln | Val | Glu | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Leu | Glu | Leu | Met | Thr | Lys | Arg | Ala | Val | Lys | Ala | Glu | Asn | His | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Lys | Leu | Lys | Gln | Glu | Ile | Ser | Leu | Leu | Gln | Ala | Gln | Val | Ser | Asn |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Phe | Gln | Arg | Glu | Asn | Glu | Ala | Leu | Arg | Cys | Gly | Gln | Gly | Ala | Ser | Leu |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Thr | Val | Val | Lys | Gln | Asn | Ala | Asp | Val | Ala | Leu | Gln | Asn | Leu | Arg | Val |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Val | Met | Asn | Ser | Ala | Gln | Ala | Ser | Ile | Lys | Gln | Leu | Val | Ser | Gly | Ala |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Glu | Thr | Leu | Asn | Leu | Val | Ala | Glu | Ile | Leu | Lys | Ser | Ile | Asp | Arg | Ile |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Glu | Val | Lys | Asp | Glu | Glu | Glu | Asp | Ser |     |     |     |     |     |     |
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<400> 11345

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| gtagaagaag  | tgactgactc  | tgggttcctg  | gggaccaccc  | cgaccttgtc  | ctgctcctta  | 120  |
| ttaggagatg  | atgccttggt  | gcaggctctat | ccagatggca  | tccggcacat  | acgagcagac  | 180  |
| aagagagtca  | atgagtggaa  | gacccctgga  | aagaaaacaa  | ttgtgaagtg  | tgcagtgaac  | 240  |
| cagcgacaag  | tggtgattgc  | cctgacagga  | ggagagctgg  | tctatttcga  | gatggatcct  | 300  |
| tcaggacagc  | tgaatgagta  | cacagaacgg  | aaggagatgt  | cagcagatgt  | ggtgtgcatg  | 360  |
| agtctggcca  | atgtaccccc  | tggagagcag  | cggtctcgct  | tcctggctgt  | ggggcttgtg  | 420  |
| gacaacactg  | tcagaatcat  | ctccctggat  | ccctcagact  | gtttgcaacc  | tctaagcatg  | 480  |
| caggctctcc  | cagcccagcc  | tgagtccttg  | tgtatcgtgg  | aaatgggtgg  | gactgagaag  | 540  |
| caggatgagc  | tgggtgagag  | gggctcgatt  | ggcttcctat  | acctgaatat  | tgggctacag  | 600  |
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| actcggtagc  | tgggttccc   | tcctgtgaag  | ctcttcogag  | tccgaatgca  | aggccagtag  | 720  |
| gcagtattgg  | ccatgtcaag  | ccgctcatgg  | ttgagctatt  | cttaccaatc  | tcgcttccat  | 780  |
| ctcaccacac  | tgtcttacga  | gacactggaa  | tttgcacggg  | gttttgccctc | ggaacagtgt  | 840  |
| cccaggaggca | ttgtggccat  | ctccaccaac  | accctacgga  | ttttggcatt  | agagaagctc  | 900  |
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| caccctgaga  | gtaacaacct  | tattatcatt  | gaaacggacc  | acaatgccta  | cactgaggcc  | 1020 |
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| gagcggggagc | tggccgcaga  | gatggcagca  | gcattcctca  | atgaaaacct  | ccctgaatcc  | 1140 |
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| cccattcaag  | ggaacacact  | ggaccttgtc  | cagctggaac  | agaatgaggc  | agcttttagt  | 1260 |
| gtggctgtgt  | gcaggttttc  | caacactggg  | gaagactggg  | atgtgctggg  | gggtgtggcc  | 1320 |
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| tgggttcgct  | acaagcgtaa  | tgaaaaccag  | cttatcatct  | ttgctgatga  | tacctacccc  | 1680 |
| cgatgggtca  | ctacagccag  | cctcctggac  | tatgacactg  | tggctggggc  | agacaagttt  | 1740 |
| ggcaacatat  | gtgtggtgag  | gctcccacct  | aacaccaatg  | atgaagtaga  | tgaggatcct  | 1800 |
| acaggaaaca  | aagccctgtg  | ggaccgtggc  | ttgctcaatg  | gggcctccca  | gaaggcagag  | 1860 |
| gtgatcatga  | actaccatgt  | cggggagacg  | gtgctgtcct  | tgcagaagac  | cacgctgatac | 1920 |
| cctggagggt  | cagaatcact  | tgtctatacc  | accttgctctg | gaggaattgg  | catccttgtg  | 1980 |
| ccattcacgt  | cccatgagga  | ccatgacttc  | ttccagcatg  | tggaaatgca  | cctgcggtct  | 2040 |
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| ggaatgactg  | gcttcccctc  | aaattggcac  | tgagatttgc  | tacacttctc  | cccacctggg  | 2460 |
| acatgataca  | tgaccccagg  | ttccagtgtg  | gaacctgagt  | ccccattcc   | ccaaaagccat | 2520 |
| ccctgcattg  | atatgtcttg  | actctcctgt  | ctacttttgc  | acacaccctt  | gatttttaaat | 2580 |

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<400> 11346

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| Met | Ser | Ser | Arg | Ser | Trp | Leu | Ser | Tyr | Ser | Tyr | Gln | Ser | Arg | Phe | His |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Thr | Pro | Leu | Ser | Tyr | Glu | Thr | Leu | Glu | Phe | Ala | Ser | Gly | Phe | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Glu | Gln | Cys | Pro | Glu | Gly | Ile | Val | Ala | Ile | Ser | Thr | Asn | Thr | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Ile | Leu | Ala | Leu | Glu | Lys | Leu | Gly | Ala | Val | Phe | Asn | Gln | Val | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Pro | Leu | Gln | Tyr | Thr | Pro | Arg | Lys | Phe | Val | Ile | His | Pro | Glu | Ser |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Asn | Asn | Leu | Ile | Ile | Ile | Glu | Thr | Asp | His | Asn | Ala | Tyr | Thr | Glu | Ala |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Lys | Ala | Gln | Arg | Lys | Gln | Gln | Met | Ala | Glu | Glu | Met | Val | Glu | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Gly | Glu | Asp | Glu | Arg | Glu | Leu | Ala | Ala | Glu | Met | Ala | Ala | Ala | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Asn | Glu | Asn | Leu | Pro | Glu | Ser | Ile | Phe | Gly | Ala | Pro | Lys | Ala | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asn | Gly | Gln | Trp | Ala | Ser | Val | Ile | Arg | Val | Met | Asn | Pro | Ile | Gln | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Asn | Thr | Leu | Asp | Leu | Val | Gln | Leu | Glu | Gln | Asn | Glu | Ala | Ala | Phe | Ser |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Ala | Val | Cys | Arg | Phe | Ser | Asn | Thr | Gly | Glu | Asp | Trp | Tyr | Val | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Val | Gly | Val | Ala | Lys | Asp | Leu | Ile | Leu | Asn | Pro | Arg | Ser | Val | Ala | Gly |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Phe | Val | Tyr | Thr | Tyr | Lys | Leu | Val | Asn | Asn | Gly | Glu | Lys | Leu | Glu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Phe | Leu | His | Lys | Thr | Pro | Val | Glu | Glu | Val | Pro | Ala | Ala | Ile | Ala | Pro |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Phe | Gln | Gly | Arg | Val | Leu | Ile | Gly | Val | Gly | Lys | Leu | Leu | Arg | Val | Tyr |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Asp | Leu | Gly | Lys | Lys | Lys | Leu | Leu | Arg | Lys | Cys | Glu | Asn | Lys | His | Ile |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Asn | Tyr | Ile | Ser | Gly | Ile | Gln | Thr | Ile | Gly | His | Arg | Val | Ile | Val |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ser | Asp | Val | Gln | Glu | Ser | Phe | Ile | Trp | Val | Arg | Tyr | Lys | Arg | Asn | Glu |

09629469.072800



|   |                     |     |
|---|---------------------|-----|
| 290   | 295                 | 300 |
| Asn Gln Leu Ile Ile Phe Ala Asp Asp Thr Tyr                     | Pro Arg Trp Val Thr |     |
| 305   | 310                 | 315 |
| Thr Ala Ser Leu Leu Asp Tyr Asp Thr Val Ala Gly Ala Asp Lys Phe |                     | 320 |
|   | 325                 | 330 |
| Gly Asn Ile Cys Val Val Arg Leu Pro Pro Asn Thr Asn Asp Glu Val |                     | 335 |
|   | 340                 | 345 |
| Asp Glu Asp Pro Thr Gly Asn Lys Ala Leu Trp Asp Arg Gly Leu Leu |                     | 350 |
|   | 355                 | 360 |
| Asn Gly Ala Ser Gln Lys Ala Glu Val Ile Met Asn Tyr His Val Gly |                     | 365 |
|   | 370                 | 375 |
| Glu Thr Val Leu Ser Leu Gln Lys Thr Thr Leu Ile Pro Gly Gly Ser |                     | 380 |
| 385   | 390                 | 395 |
| Glu Ser Leu Val Tyr Thr Thr Leu Ser Gly Gly Ile Gly Ile Leu Val |                     | 400 |
|   | 405                 | 410 |
| Pro Phe Thr Ser His Glu Asp His Asp Phe Phe Gln His Val Glu Met |                     | 415 |
|   | 420                 | 425 |
| His Leu Arg Ser Glu His Pro Pro Leu Cys Gly Arg Asp His Leu Ser |                     | 430 |
|   | 435                 | 440 |
| Phe Arg Ser Tyr Tyr Phe Pro Val Lys Asn Val Ile Asp Gly Asp Leu |                     | 445 |
|   | 450                 | 455 |
| Cys Glu Gln Phe Asn Ser Met Glu Pro Asn Lys Gln Lys Asn Val Ser |                     | 460 |
| 465   | 470                 | 475 |
| Glu Glu Leu Asp Arg Thr Pro Pro Glu Val Ser Lys Lys Leu Glu Asp |                     | 480 |
|   | 485                 | 490 |
| Ile Arg Thr Arg Tyr Ala Phe                                     |                     | 495 |
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<400> 11348

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| Met | Pro | Arg | Pro | Gly | Ser | Ala | Gln | Arg | Trp | Ala | Ala | Val | Ala | Gly | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Trp | Gly | Cys | Arg | Leu | Leu | Ala | Leu | Leu | Leu | Val | Pro | Gly | Pro | Gly |     |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |     |     |
| Gly | Ala | Ser | Glu | Ile | Thr | Phe | Glu | Leu | Pro | Asp | Asn | Ala | Lys | Gln | Cys |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Tyr | Glu | Asp | Ile | Ala | Gln | Gly | Thr | Lys | Cys | Thr | Leu | Glu | Phe | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Val | Ile | Thr | Gly | Gly | His | Tyr | Asp | Val | Asp | Cys | Arg | Leu | Glu | Asp | Pro |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Asp | Gly | Lys | Val | Leu | Tyr | Lys | Glu | Met | Lys | Lys | Gln | Tyr | Asp | Ser | Phe |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     | 95  |     |     |
| Thr | Phe | Thr | Ala | Ser | Lys | Asn | Gly | Thr | Tyr | Lys | Phe | Cys | Phe | Ser | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Phe | Ser | Thr | Phe | Thr | His | Lys | Thr | Val | Tyr | Phe | Asp | Phe | Gln | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Glu | Asp | Pro | Pro | Leu | Phe | Pro | Ser | Glu | Asn | Arg | Val | Ser | Ala | Leu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Gln | Met | Glu | Ser | Ala | Cys | Val | Ser | Ile | His | Glu | Ala | Leu | Lys | Ser |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Val | Ile | Asp | Tyr | Gln | Thr | His | Phe | Arg | Leu | Arg | Glu | Ala | Gln | Gly | Arg |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |

Ser Arg Ala Glu Asp Leu Asn Thr Arg Val Ala Tyr Trp Ser Val Gly  
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Glu Ala Leu Ile Leu Leu Val Val Ser Ile Gly Gln Val Phe Leu Leu  
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| Ser | Ala | Ser | Ser | Gln | Ala | Leu | Ile | Thr | Ser | Ile | Lys | Pro | Lys | Lys | Ala |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ser | Lys | Ala | Lys | Lys | Ala | Ala | Asn | Lys | Ala | Ile | Ala | Ser | Ala | Thr | Glu |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Val | Ser | Leu | Ala | Ala | Thr | Ala | Thr | His | Thr | Ala | Thr | Thr | Gln | Gly | Gln |
|     |     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  |     |
| Ile | Thr | Asn | Glu | Thr | Ala | Ser | Ile | His | Thr | Thr | Ala | Ala | Ser | Ile | Arg |
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| Thr | Lys | Lys | Ala | Ser | Lys | Ala | Arg | Lys | Thr | Ile | Ala | Lys | Val | Ile | Asn |
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| Thr | Asp | Thr | Glu | His | Ile | Glu | Ala | Leu | Asn | Val | Thr | Asp | Ala | Ala | Thr |
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|     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
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| Glu | Ala | Pro | Leu | Ala | Thr | Gln | Ile | Val | Thr | Asn | Gln | Ala | Leu | Ala | Ala |  |  |
|     |     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |  |  |
| Thr | Leu | Arg | Val | Lys | Arg | Gly | Ser | Arg | Ala | Arg | Lys | Ala | Ala | Thr | Lys |  |  |
|     |     |     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |  |  |
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| Ala | Lys | Ile | Ala | Ser | Ala | Gln | Thr | Asn | Val | Ser | Ala | Leu | Glu | Thr | Gln |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| Val | Ala | Ala | Ala | Val | Gln | Ala | Leu | Ala | Asp | Asp | Tyr | Leu | Ala | Gln | Leu |  |  |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |  |  |
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| Lys | His | Leu | Asn | Gly | Asp | Glu | Arg | Ser | Gly | Ser | Asn | Tyr | Arg | Arg | Ile |  |  |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |  |  |
| Pro | Trp | Gly | Arg | Arg | Pro | Ala | Pro | Pro | Arg | Asp | Val | Ala | Ile | Leu | Gln |  |  |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |  |  |
| Glu | Arg | Ala | Asn | Lys | Leu | Val | Lys | Tyr | Leu | Leu | Val | Lys | Asp | Gln | Thr |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Lys | Ile | Pro | Ile | Lys | Arg | Ser | Asp | Met | Leu | Arg | Asp | Val | Ile | Gln | Glu |  |  |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |  |  |
| Tyr | Asp | Glu | Tyr | Phe | Pro | Glu | Ile | Ile | Glu | Arg | Ala | Ser | Cys | Thr | Leu |  |  |
|     |     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |  |  |
| Glu | Lys | Met | Phe | Arg | Val | Asn | Leu | Lys | Glu | Ile | Asp | Lys | Gln | Ser | Ser |  |  |
|     |     |     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |  |  |
| Leu | Tyr | Ile | Leu | Ile | Ser | Thr | Gln | Glu | Ser | Ser | Ala | Gly | Ile | Leu | Gly |  |  |
|     |     |     |     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |  |  |
| Thr | Thr | Lys | Asp | Thr | Pro | Lys | Leu | Gly | Leu | Leu | Met | Val | Ile | Leu | Ser |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |
| Val | Ile | Phe | Met | Asn | Gly | Asn | Lys | Ala | Ser | Glu | Ala | Val | Ile | Trp | Glu |  |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |  |
| Val | Leu | Arg | Lys | Leu | Gly | Leu | Arg | Pro | Gly | Val | Arg | His | Ser | Leu | Phe |  |  |
|     |     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |  |  |
| Gly | Glu | Val | Arg | Lys | Leu | Ile | Thr | Asp | Glu | Phe | Val | Lys | Gln | Lys | Tyr |  |  |
|     |     |     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |  |  |
| Leu | Glu | Tyr | Lys | Arg | Val | Pro | Asn | Ser | Arg | Pro | Pro | Glu | Tyr | Glu | Phe |  |  |
|     |     |     |     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |  |  |
| Phe | Trp | Gly | Leu | Arg | Ser | Tyr | His | Glu | Thr | Ser | Lys | Met | Lys | Val | Leu |  |  |
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| Lys | Phe | Ala | Cys | Arg | Val | Gln | Lys | Lys | Asp | Pro | Lys | Asp | Trp | Ala | Val |  |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |  |
| Gln | Tyr | Arg | Glu | Ala | Val | Glu | Met | Glu | Val | Gln | Ala | Ala | Ala | Val | Ala |  |  |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |  |  |
| Val | Ala | Glu | Ala | Glu | Ala | Arg | Ala | Glu | Ile | Tyr | Ser | Pro | Cys | Leu | Gln |  |  |
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| Ile | Pro | Leu | Ile | Asn | Cys | Ser | Ser | Pro | Ser | His | Gly | Ala | Lys | Val | His |  |  |
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| Thr | Gly | Ile | Leu | Lys | Gly | Val | Asn | Leu | Gln | Arg | Lys | Gln | Ala | Ala | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Thr | Ala | Gly | Gly | Gln | Pro | Arg | Arg | Glu | Glu | Ala | Val | Ser | Ala | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Cys | Trp | Gly | Thr | Gly | Gly | Glu | Thr | Gln | Met | Leu | Val | Gly | Cys | Ala | Asp |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Thr | Val | Lys | His | Phe | Ser | Thr | Glu | Asp | Gly | Ile | Phe | Gln | Gly | Gln |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | His | Cys | Pro | Gly | Gly | Glu | Gly | Met | Phe | Arg | Gly | Leu | Ala | Gln | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Gly | Thr | Leu | Ile | Thr | Cys | Val | Asp | Ser | Gly | Ile | Leu | Arg | Val | Trp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| His | Asp | Lys | Asp | Lys | Asp | Thr | Ser | Ser | Asp | Pro | Leu | Leu | Glu | Leu | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Val | Gly | Pro | Gly | Val | Cys | Arg | Met | Arg | Gln | Asp | Pro | Ala | His | Pro | His |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Val | Ala | Thr | Gly | Gly | Lys | Glu | Asn | Ala | Leu | Lys | Ile | Trp | Asp | Leu |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gln | Gly | Ser | Glu | Glu | Pro | Val | Phe | Arg | Ala | Lys | Asn | Val | Arg | Asn | Asp |
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|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
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|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Val | Ile | Val | Gly | Asn | Thr | His | Gly | Gln | Leu | Ala | Glu | Ile | Asp | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
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|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Asp | Arg | Val | Leu | Arg | Ile | His | Gly | Thr | Gln | Asn | Pro | Arg | Gly | Leu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
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|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Glu | Ala | Ala | Ala | Lys | Arg | Lys | Leu | Ser | Gly | Leu | Glu | Gln | Pro | Gln | Gly |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
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|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Pro |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |  |  |
| Ile | Asp | Ser | Arg | Asp | Gly | Ala | Ser | Cys | Ala | Glu | Leu | Val | Ser | Phe | Lys |  |  |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |  |
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|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |  |
| Lys | Cys | Gln | Gln | Val | Leu | Glu | Pro | Pro | Tyr | Asp | Glu | Met | Phe | Ala | Ala |  |  |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |  |  |
| His | Leu | Arg | Cys | Thr | Tyr | Ala | Val | Gly | Asn | His | Asp | Phe | Ile | Glu | Ala |  |  |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |  |  |
| Tyr | Lys | Cys | Gln | Thr | Val | Ile | Val | Gln | Ser | Phe | Leu | Arg | Ala | Phe | Gln |  |  |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |  |  |
| Ala | His | Lys | Glu | Glu | Asn | Trp | Ala | Leu | Pro | Val | Met | Tyr | Ala | Val | Ala |  |  |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |  |  |
| Leu | Asp | Leu | Arg | Val | Phe | Ala | Asn | Asn | Ala | Asp | Gln | Gln | Leu | Val | Lys |  |  |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |  |  |
| Lys | Gly | Lys | Ser | Lys | Val | Gly | Asp | Met | Leu | Glu | Lys | Ala | Ala | Glu | Leu |  |  |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |  |  |
| Leu | Met | Ser | Cys | Phe | Arg | Val | Cys | Ala | Ser | Asp | Thr | Arg | Ala | Gly | Ile |  |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |  |  |
| Glu | Asp | Ser | Lys | Lys | Trp | Gly | Met | Leu | Phe | Leu | Val | Asn | Gln | Leu | Phe |  |  |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |  |  |
| Lys | Ile | Tyr | Ile | Lys | Ile | Asn | Lys | Leu | His | Leu | Cys | Lys | Pro | Leu | Ile |  |  |
|     |     | 180 |     |     |     | 185 |     |     |     |     |     |     | 190 |     |     |  |  |
| Arg | Ala | Ile | Asp | Ser | Ser | Asn | Leu | Lys | Asp | Asp | Tyr | Ser | Thr | Ala | Gln |  |  |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |  |  |
| Arg | Val | Thr | Tyr | Lys | Tyr | Tyr | Val | Gly | Arg | Lys | Ala | Met | Phe | Asp | Ser |  |  |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |  |  |
| Asp | Phe | Lys | Gln | Ala | Glu | Glu | Tyr | Leu | Ser | Phe | Ala | Phe | Glu | His | Cys |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |
| His | Arg | Ser | Ser | Gln | Lys | Asn | Lys | Arg | Met | Ile | Leu | Ile | Tyr | Leu | Leu |  |  |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |  |  |
| Pro | Val | Lys | Met | Leu | Leu | Gly | His | Met | Pro | Thr | Val | Glu | Leu | Leu | Lys |  |  |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |
| Lys | Tyr | His | Leu | Met | Gln | Phe | Ala | Glu | Val | Thr | Arg | Ala | Val | Ser | Glu |  |  |
|     |     | 275 |     |     |     | 280 |     |     |     |     |     | 285 |     |     |     |  |  |
| Gly | Asn | Leu | Leu | Leu | Leu | His | Glu | Ala | Leu | Ala | Lys | His | Glu | Ala | Phe |  |  |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |  |  |
| Phe | Ile | Arg | Cys | Gly | Ile | Phe | Leu | Ile | Leu | Glu | Lys | Leu | Lys | Ile | Ile |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |
| Thr | Tyr | Arg | Asn | Leu | Phe | Lys | Lys | Val | Tyr | Leu | Leu | Leu | Lys | Thr | His |  |  |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |     |  |  |
| Gln | Leu | Ser | Leu | Asp | Ala | Phe | Leu | Val | Ala | Leu | Lys | Phe | Met | Gln | Val |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |
| Glu | Asp | Val | Asp | Ile | Asp | Glu | Val | Gln | Cys | Ile | Leu | Ala | Asn | Leu | Ile |  |  |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |  |  |
| Tyr | Met | Gly | His | Val | Lys | Gly | Tyr | Ile | Ser | His | Gln | His | Gln | Lys | Leu |  |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |  |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Ser | Ala | Val | Ala | Glu | Ala | Gln | Arg | Glu | Pro | Leu | Ser | Ala | Phe |     |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Arg | Lys | Leu | Asn | Val | Asn | Ala | Lys | Pro | Phe | Val | Pro | Asn | Val | His |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Ala | Glu | Phe | Val | Pro | Ser | Phe | Leu | Arg | Gly | Pro | Thr | Gln | Pro | Pro |
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| Thr | Leu | Pro | Ala | Gly | Ser | Gly | Ser | Asn | Asp | Glu | Thr | Cys | Thr | Gly | Ala |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Tyr | Pro | Gln | Gly | Lys | Arg | Met | Gly | Arg | Gly | Ala | Pro | Val | Glu | Pro |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
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| Pro | Gly | Gly | Gly | Ser | Ser | Gly | Asp | Ser | Gly | Pro | Pro | Glu | Glu | Ser | Gly |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gln | Glu | Met | Met | Glu | Glu | Lys | Glu | Glu | Ile | Arg | Lys | Ser | Lys | Ser | Val |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Val | Pro | Ser | Gly | Ala | Pro | Lys | Lys | Glu | His | Val | Asn | Val | Val | Phe |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ile | Gly | His | Val | Asp | Ala | Gly | Lys | Ser | Thr | Ile | Gly | Gly | Gln | Ile | Met |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Phe | Leu | Thr | Gly | Met | Val | Asp | Lys | Arg | Thr | Leu | Glu | Lys | Tyr | Glu | Arg |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Glu | Ala | Lys | Glu | Lys | Asn | Arg | Glu | Thr | Trp | Tyr | Leu | Ser | Trp | Ala | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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2239

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<400> 11361

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| Met | Pro | Gly | Gln | Arg | Arg | Ala | Leu | Ser | Pro | Lys | Met | Ala | Ser | Met | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Ser | Asp | Thr | Gly | Leu | Trp | Leu | His | Asn | Lys | Leu | Gly | Ala | Thr | Asp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Leu | Trp | Ala | Pro | Pro | Ser | Ile | Ala | Ser | Leu | Leu | Thr | Ala | Ala | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Asp | Asn | Ile | Arg | Leu | Cys | Phe | His | Gly | Leu | Ser | Ser | Ala | Val | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Lys | Leu | Leu | Leu | Gly | Thr | Leu | His | Leu | Pro | Arg | Arg | Thr | Val | Asp |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Met | Arg | Gly | Ala | Leu | Met | Glu | Ile | Ile | Gln | Leu | Ala | Ser | Leu | Asp |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Asp | Pro | Trp | Val | Leu | Met | Val | Ala | Asp | Ile | Leu | Lys | Ser | Phe | Pro |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asp | Thr | Gly | Ser | Leu | Asn | Leu | Glu | Leu | Glu | Gln | Asn | Pro | Asn | Val |     |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Gln | Asp | Ile | Leu | Gly | Glu | Leu | Arg | Glu | Lys | Val | Gly | Glu | Cys | Glu | Ala |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ser | Ala | Met | Leu | Pro | Leu | Glu | Cys | Gln | Tyr | Leu | Asn | Lys | Asn | Ala | Leu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Thr | Thr | Leu | Ala | Gly | Pro | Leu | Thr | Pro | Pro | Val | Lys | His | Phe | Gln | Leu |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Lys | Arg | Lys | Pro | Lys | Ser | Ala | Thr | Leu | Arg | Ala | Glu | Leu | Leu | Gln | Lys |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Thr | Glu | Thr | Ala | Gln | Gln | Leu | Lys | Arg | Ser | Ala | Gly | Val | Pro | Phe |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| His | Ala | Lys | Gly | Arg | Gly | Leu | Leu | Arg | Lys | Met | Asp | Thr | Thr | Thr | Pro |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Leu | Lys | Gly | Ile | Pro | Lys | Gln | Ala | Pro | Phe | Arg | Ser | Pro | Thr | Ala | Pro |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Val | Phe | Ser | Pro | Thr | Gly | Asn | Arg | Thr | Pro | Ile | Pro | Pro | Ser | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Thr | Leu | Leu | Arg | Lys | Glu | Arg | Gly | Val | Lys | Leu | Leu | Asp | Ile | Ser | Glu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Asp | Met | Val | Gly | Ala | Gly | Arg | Glu | Ala | Lys | Arg | Arg | Arg | Lys | Thr |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Asp | Ala | Glu | Val | Val | Glu | Lys | Pro | Ala | Lys | Glu | Glu | Thr | Val | Val |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Glu | Asn | Ala | Thr | Pro | Asp | Tyr | Ala | Ala | Gly | Leu | Val | Ser | Thr | Gln | Lys |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Gly | Ser | Leu | Asn | Asp | Glu | Pro | Ala | Leu | Pro | Ser | Thr | Ser | Tyr | Leu |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Pro | Ser | Thr | Pro | Ser | Val | Val | Pro | Ala | Ser | Ser | Tyr | Ile | Pro | Ser | Ser |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Glu | Thr | Pro | Pro | Ala | Pro | Ser | Ser | Arg | Glu | Ala | Ser | Arg | Pro | Pro | Glu |
|     |     | 355 |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |
| Glu | Pro | Ser | Ala | Pro | Ser | Pro | Thr | Leu | Pro | Ala | Gln | Phe | Lys | Gln | Arg |
|     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |     |
| Ala | Pro | Met | Tyr | Asn | Ser | Gly | Leu | Ser | Pro | Ala | Thr | Pro | Thr | Pro | Ala |
| 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |     |
| Ala | Pro | Thr | Ser | Pro | Leu | Thr | Pro | Thr | Thr | Pro | Pro | Ala | Val | Ala | Pro |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |
| Thr | Thr | Gln | Thr | Pro | Pro | Val | Ala | Met | Val | Ala | Pro | Gln | Thr | Gln | Ala |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |
| Pro | Ala | Gln | Gln | Gln | Pro | Lys | Lys | Asn | Leu | Ser | Leu | Thr | Arg | Glu | Gln |
|     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     |
| Met | Phe | Ala | Ala | Gln | Glu | Met | Phe | Lys | Thr | Ala | Asn | Lys | Val | Thr | Arg |
| 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |     |     |     |     |
| Pro | Glu | Lys | Ala | Leu | Ile | Leu | Gly | Phe | Met | Ala | Gly | Ser | Arg | Glu | Asn |
| 465 |     |     |     | 470 |     |     |     | 475 |     |     |     |     |     | 480 |     |
| Pro | Cys | Gln | Glu | Gln | Gly | Asp | Val | Ile | Gln | Ile | Lys | Leu | Ser | Glu | His |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |     |
| Thr | Glu | Asp | Leu | Pro | Lys | Ala | Asp | Gly | Gln | Gly | Ser | Thr | Thr | Met | Leu |
|     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |     |
| Val | Asp | Thr | Val | Phe | Glu | Met | Asn | Tyr | Ala | Thr | Gly | Gln | Trp | Thr | Arg |
|     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |     |
| Phe | Lys | Lys | Tyr | Lys | Pro | Met | Thr | Asn | Val | Ser |     |     |     |     |     |
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<400> 11363

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| Met | Gly | Gln | Cys | Gly | Ile | Thr | Ser | Ser | Lys | Thr | Val | Leu | Val | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asn | Leu | Ile | Phe | Trp | Gly | Ala | Ala | Gly | Ile | Leu | Cys | Tyr | Val | Gly | Ala |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Tyr | Val | Phe | Ile | Thr | Tyr | Asp | Asp | Tyr | Asp | His | Phe | Phe | Glu | Asp | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Tyr | Thr | Leu | Ile | Pro | Ala | Val | Val | Ile | Ile | Ala | Val | Gly | Ala | Leu | Leu |
|     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |
| Phe | Ile | Ile | Gly | Leu | Ile | Gly | Cys | Cys | Ala | Thr | Ile | Arg | Glu | Ser | Arg |
|     |     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Cys | Gly | Leu | Ala | Thr | Phe | Val | Ile | Ile | Leu | Leu | Leu | Val | Phe | Val | Thr |
|     |     |     |     | 85  |     |     |     |     |     | 90  |     |     |     | 95  |     |
| Glu | Val | Val | Val | Val | Val | Leu | Gly | Tyr | Val | Tyr | Arg | Ala | Lys | Val | Glu |
|     |     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Glu | Val | Asp | Arg | Ser | Ile | Gln | Lys | Val | Tyr | Lys | Thr | Tyr | Asn | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Thr | Asn | Pro | Asp | Ala | Ala | Ser | Arg | Ala | Ile | Asp | Tyr | Val | Gln | Arg | Gln |
|     |     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |

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 Trp Phe Lys Glu Thr Lys Asn Gln Ser Val Pro Leu Ser Cys Cys Arg  
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 Glu Thr Ala Ser Asn Cys Asn Gly Ser Leu Ala His Pro Ser Asp Leu  
 180 185 190  
 Tyr Ala Glu Gly Cys Glu Ala Leu Val Val Lys Lys Leu Gln Glu Ile  
 195 200 205  
 Met Met His Val Ile Trp Ala Ala Leu Ala Phe Ala Ala Ile Gln Leu  
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 <212> PRT  
 <213> Homo sapiens

<400> 11365

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| Met | Ala | Gly | Gln | Asp | Pro | Ala | Leu | Ser | Thr | Ser | His | Pro | Phe | Tyr | Asp |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Ala | Arg | His | Gly | Ile | Leu | Gln | Val | Ala | Gly | Asp | Asp | Arg | Phe | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Arg | Val | Val | Thr | Phe | Ser | Cys | Cys | Arg | Met | Pro | Pro | Ser | His | Glu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Asp | His | Gln | Arg | Leu | Leu | Glu | Tyr | Leu | Lys | Tyr | Thr | Leu | Asp | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Tyr | Val | Glu | Asn | Asp | Tyr | Thr | Ile | Val | Tyr | Phe | His | Tyr | Gly | Leu | Asn |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ser | Arg | Asn | Lys | Pro | Ser | Leu | Gly | Trp | Leu | Gln | Ser | Ala | Tyr | Lys | Glu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Phe | Asp | Arg | Lys | Asp | Gly | Asp | Leu | Thr | Met | Trp | Pro | Arg | Leu | Val | Ser |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Asn | Ser | Lys | Leu | Lys | Arg | Ser | Ser | His | Leu | Ser | Leu | Pro | Lys | Tyr | Trp |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Asp | Tyr | Arg | Tyr | Lys | Lys | Asn | Leu | Lys | Ala | Leu | Tyr | Val | Val | His | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Ser | Phe | Ile | Lys | Val | Leu | Trp | Asn | Ile | Leu | Lys | Pro | Leu | Ile | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| His | Lys | Phe | Gly | Lys | Lys | Val | Ile | Tyr | Phe | Asn | Tyr | Leu | Ser | Glu | Leu |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| His | Glu | His | Leu | Lys | Tyr | Asp | Gln | Leu | Val | Ile | Pro | Pro | Glu | Val | Leu |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Tyr | Asp | Glu | Lys | Leu | Gln | Ser | Leu | His | Glu | Gly | Arg | Thr | Pro | Pro |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Pro | Thr | Lys | Thr | Pro | Pro | Pro | Arg | Pro | Pro | Leu | Pro | Thr | Gln | Gln | Phe |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Val | Ser | Leu | Gln | Tyr | Leu | Lys | Asp | Lys | Asn | Gln | Gly | Glu | Leu | Ile |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Pro | Pro | Val | Leu | Arg | Phe | Thr | Val | Thr | Tyr | Leu | Arg | Glu | Lys | Gly | Leu |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Thr | Glu | Gly | Leu | Phe | Arg | Arg | Ser | Ala | Ser | Val | Gln | Thr | Val | Arg |
|     |     | 260 |     |     |     |     |     | 265 |     |     |     |     | 270 |     |     |

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275 280 285  
Tyr Gly Asp Ile His Ile Pro Ala Val Ile Leu Lys Thr Phe Leu Arg  
290 295 300  
Glu Leu Pro Gln Pro Leu Leu Thr Phe Gln Ala Tyr Glu Gln Ile Leu  
305 310 315 320  
Gly Ile Thr Cys Val Glu Ser Ser Leu Arg Val Thr Gly Cys Arg Gln  
325 330 335  
Ile Leu Arg Ser Leu Pro Glu His Asn Tyr Val Val Leu Arg Tyr Leu  
340 345 350  
Met Gly Phe Leu His Ala Val Ser Arg Glu Ser Ile Phe Asn Lys Met  
355 360 365  
Asn Ser Ser Asn Leu Ala Cys Val Phe Gly Leu Asn Leu Ile Trp Pro  
370 375 380  
Ser Gln Gly Val Ser Ser Leu Ser Ala Leu Val Pro Leu Asn Met Phe  
385 390 395 400  
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| Met | Gly | Ser | Gly | Ser | Ser | Tyr | Arg | Pro | Lys | Ala | Ile | Tyr | Leu | Asp |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |
| Ile | Asp | Gly | Arg | Ile | Gln | Lys | Val | Ile | Phe | Ser | Lys | Tyr | Cys | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  | Ser |
| Ser | Asp | Ile | Met | Asp | Leu | Phe | Cys | Ile | Ala | Thr | Gly | Leu | Pro | Arg |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     | Asn |
| Thr | Thr | Ile | Ser | Leu | Leu | Thr | Thr | Asp | Asp | Ala | Met | Val | Ser | Ile |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     | Asp |
| Pro | Thr | Met | Pro | Ala | Asn | Ser | Glu | Arg | Thr | Pro | Tyr | Lys | Val | Arg |
|     |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |
| Val | Ala | Ile | Lys | Gln | Leu | Ser | Glu | Arg | Glu | Glu | Leu | Ile | Gln | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  | Val |
| Leu | Ala | Gln | Val | Ala | Glu | Gln | Phe | Ser | Arg | Ala | Phe | Lys | Ile | Asn |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     | 110 |     | Glu |
| Leu | Lys | Ala | Glu | Val | Ala | Asn | His | Leu | Ala | Val | Leu | Glu | Lys | Arg |
|     |     |     | 115 |     |     | 120 |     |     |     |     |     | 125 |     | Val |
| Glu | Leu | Glu | Gly | Leu | Lys | Val | Val | Glu | Ile | Glu | Lys | Cys | Lys | Ser |
|     |     |     | 130 |     |     | 135 |     |     |     | 140 |     |     |     | Asp |
| Ile | Lys | Lys | Met | Arg | Glu | Glu | Leu | Ala | Ala | Gly | Ser | Ser | Arg | Thr |
|     |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     | 160 |
| Cys | Pro | Cys | Lys | Tyr | Ser | Phe | Leu | Asp | Asn | His | Lys | Lys | Leu | Thr |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Arg | Asp | Val | Pro | Thr | Tyr | Pro | Lys | Tyr | Leu | Leu | Ser | Pro | Glu | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Glu | Ala | Leu | Arg | Lys | Pro | Thr | Phe | Asp | Val | Trp | Leu | Trp | Glu | Pro |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Asn | Glu | Met | Leu | Ser | Cys | Leu | Glu | His | Met | Tyr | His | Asp | Leu | Gly | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Val | Arg | Asp | Phe | Ser | Ile | Asn | Pro | Val | Thr | Leu | Arg | Arg | Trp | Leu | Phe |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Cys | Val | His | Asp | Asn | Tyr | Arg | Asn | Asn | Pro | Phe | His | Asn | Phe | Arg | His |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Cys | Phe | Cys | Val | Ala | Gln | Met | Met | Tyr | Ser | Met | Val | Trp | Leu | Cys | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Gln | Glu | Lys | Phe | Ser | Gln | Thr | Asp | Ile | Leu | Ile | Leu | Met | Thr | Ala |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ala | Ile | Cys | His | Asp | Leu | Asp | His | Pro | Gly | Tyr | Asn | Asn | Thr | Tyr | Gln |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Asn | Ala | Arg | Thr | Glu | Leu | Ala | Val | Arg | Tyr | Asn | Asp | Ile | Ser | Pro |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Leu | Glu | Asn | His | His | Cys | Ala | Val | Ala | Phe | Gln | Ile | Leu | Ala | Glu | Pro |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Glu | Cys | Asn | Ile | Phe | Ser | Asn | Ile | Pro | Pro | Asp | Gly | Phe | Lys | Gln | Ile |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Arg | Gln | Gly | Met | Ile | Thr | Leu | Ile | Leu | Ala | Thr | Asp | Met | Ala | Arg | His |
|     |     | 355 |     |     |     | 360 |     |     |     |     |     | 365 |     |     |     |
| Ala | Glu | Ile | Met | Asp | Ser | Phe | Lys | Glu | Lys | Met | Glu | Asn | Phe | Asp | Tyr |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ser | Asn | Glu | Glu | His | Met | Thr | Leu | Leu | Lys | Met | Ile | Leu | Ile | Lys | Cys |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Cys | Asp | Ile | Ser | Asn | Glu | Val | Arg | Pro | Met | Glu | Val | Ala | Glu | Pro | Trp |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Val | Asp | Cys | Leu | Leu | Glu | Glu | Tyr | Phe | Met | Gln | Ser | Asp | Arg | Glu | Lys |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Ser | Glu | Gly | Leu | Pro | Val | Ala | Pro | Phe | Met | Asp | Arg | Asp | Lys | Val | Thr |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Lys | Ala | Thr | Ala | Gln | Ile | Gly | Phe | Ile | Lys | Phe | Val | Leu | Ile | Pro | Met |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Phe | Glu | Thr | Val | Thr | Lys | Leu | Phe | Pro | Met | Val | Glu | Glu | Ile | Met | Leu |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Gln | Pro | Leu | Trp | Glu | Ser | Arg | Asp | Arg | Tyr | Glu | Glu | Leu | Lys | Arg | Ile |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Asp | Asp | Ala | Met | Lys | Glu | Leu | Gln | Lys | Lys | Thr | Asp | Ser | Leu | Thr | Ser |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Gly | Ala | Thr | Lys | Lys | Ser | Arg | Glu | Arg | Ser | Arg | Asp | Val | Lys | Asn | Ser |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Glu | Gly | Asp | Cys | Ala |     |     |     |     |     |     |     |     |     |     |     |
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 <213> Homo sapiens

<400> 11371

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| Met | Gly | Gln | Cys | Gly | Ile | Thr | Ser | Ser | Lys | Thr | Val | Leu | Val | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asn | Leu | Ile | Phe | Trp | Gly | Ala | Ala | Gly | Ile | Leu | Cys | Tyr | Val | Gly | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Tyr | Val | Phe | Ile | Thr | Tyr | Asp | Asp | Tyr | Asp | His | Phe | Phe | Glu | Asp | Val |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Tyr | Thr | Leu | Ile | Pro | Ala | Val | Val | Ile | Ile | Ala | Val | Gly | Ala | Leu | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Ile | Ile | Gly | Leu | Ile | Gly | Cys | Cys | Ala | Thr | Ile | Arg | Glu | Ser | Arg |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Cys | Gly | Leu | Ala | Thr | Phe | Val | Ile | Ile | Leu | Leu | Leu | Val | Phe | Val | Thr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     | 95  |     |     |
| Glu | Val | Val | Val | Val | Val | Leu | Gly | Tyr | Val | Tyr | Arg | Ala | Lys | Val | Glu |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Asn | Glu | Val | Asp | Arg | Ser | Ile | Gln | Lys | Val | Tyr | Lys | Thr | Tyr | Asn | Gly |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Thr | Asn | Pro | Asp | Ala | Ala | Ser | Arg | Ala | Ile | Asp | Tyr | Val | Gln | Arg | Gln |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | His | Cys | Cys | Gly | Ile | His | Asn | Tyr | Ser | Asp | Trp | Glu | Asn | Thr | Asp |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Trp | Phe | Lys | Glu | Thr | Lys | Asn | Gln | Ser | Val | Pro | Leu | Ser | Cys | Cys | Arg |
|     |     |     | 165 |     |     |     | 170 |     |     |     |     | 175 |     |     |     |
| Glu | Thr | Ala | Ser | Asn | Cys | Asn | Gly | Ser | Leu | Ala | His | Pro | Ser | Asp | Leu |
|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |

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<400> 11373

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| Met | Thr | Cys | His | Lys | Arg | Tyr | Lys | Ile | Gln | Lys | Lys | Val | Arg | Glu | His |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| His | Arg | Lys | Leu | Arg | Lys | Glu | Ala | Lys | Lys | Arg | Gly | His | Lys | Lys | Pro |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Arg | Lys | Asp | Pro | Gly | Val | Pro | Asn | Ser | Ala | Pro | Phe | Lys | Glu | Ala | Leu |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Arg | Glu | Ala | Glu | Leu | Arg | Lys | Gln | Arg | Leu | Glu | Glu | Leu | Lys | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gln | Gln | Lys | Leu | Asp | Arg | Gln | Lys | Glu | Leu | Glu | Lys | Lys | Arg | Lys | Leu |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     |     | 80  |
| Glu | Thr | Asn | Pro | Asp | Ile | Lys | Pro | Ser | Asn | Val | Glu | Pro | Met | Glu | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Phe | Gly | Leu | Cys | Lys | Thr | Glu | Asn | Lys | Ala | Lys | Ser | Gly | Lys | Gln |
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| Asn | Ser | Lys | Lys | Leu | Tyr | Cys | Gln | Glu | Leu | Lys | Lys | Val | Ile | Glu | Ala |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |
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| 145 |     |     |     |     |     | 150 |     |     |     | 155 |     |     |     |     | 160 |
| Leu | Val | Leu | Ile | Leu | Asn | Lys | Ser | Asp | Leu | Val | Pro | Lys | Glu | Asn | Leu |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Glu | Ser | Trp | Leu | Asn | Tyr | Leu | Lys | Lys | Glu | Leu | Pro | Thr | Val | Val | Phe |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Arg | Ala | Ser | Thr | Lys | Pro | Lys | Asp | Lys | Gly | Lys | Ile | Thr | Lys | Arg | Val |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |
| Lys | Ala | Lys | Lys | Asn | Ala | Ala | Pro | Phe | Arg | Ser | Glu | Val | Cys | Phe | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Lys | Glu | Gly | Leu | Trp | Lys | Leu | Leu | Gly | Gly | Phe | Gln | Glu | Thr | Cys | Ser |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Ala | Ile | Arg | Val | Gly | Val | Ile | Gly | Phe | Pro | Asn | Val | Gly | Lys | Ser |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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Trp Gln Ala Thr Ile Met Gly Pro Asn Asp Ser Pro Tyr Gln Gly Gly
          35             40             45
Val Phe Phe Leu Thr Ile His Phe Pro Thr Asp Tyr Pro Phe Lys Pro
          50             55             60
Pro Lys Val Ala Phe Thr Thr Arg Ile Tyr His Pro Asn Ile Asn Ser
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 <213> Homo sapiens

<400> 11377

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| Met | Glu | Ser | Pro | Glu | Glu | Pro | Gly | Ala | Ser | Met | Asp | Glu | Asn | Tyr | Phe |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     | 15  |     |     |
| Val | Asn | Tyr | Thr | Phe | Lys | Asp | Arg | Ser | His | Ser | Gly | Arg | Val | Ala | Gln |
|     |     |     | 20  |     |     |     | 25  |     |     |     |     |     | 30  |     |     |
| Gly | Ile | Met | Lys | Leu | Cys | Leu | Glu | Glu | Leu | Phe | Ala | Asp | Val | Thr |     |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Ile | Ser | Val | Glu | Gly | Arg | Glu | Phe | Gln | Leu | His | Arg | Leu | Val | Leu | Ser |
|     | 50  |     |     |     | 55  |     |     |     |     |     | 60  |     |     |     |     |
| Ala | Gln | Ser | Cys | Phe | Phe | Arg | Ser | Met | Phe | Thr | Ser | Asn | Leu | Lys | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ala | His | Asn | Arg | Val | Ile | Val | Leu | Gln | Asp | Val | Ser | Glu | Ser | Val | Phe |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gln | Leu | Leu | Val | Asp | Tyr | Ile | Tyr | His | Gly | Thr | Val | Lys | Leu | Arg | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Glu | Leu | Gln | Glu | Ile | Tyr | Glu | Val | Ser | Asp | Met | Tyr | Gln | Leu | Thr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Leu | Phe | Glu | Glu | Cys | Ser | Arg | Phe | Leu | Ala | Arg | Thr | Val | Gln | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Asn | Cys | Leu | Gln | Val | Met | Trp | Leu | Ala | Asp | Arg | His | Ser | Asp | Pro |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asp | Ile | Thr | Ser | Asp | Gly | Val | Pro | Cys | Ser | Gln | Asn | Pro | Thr | Glu | Ala |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Ile | Glu | Ala | Trp | Ile | Asn | Phe | Asn | Lys | Glu | Glu | Arg | Glu | Ala | Phe | Ala |
| 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |



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 260 265 270  
 Leu Cys His Gln Ile Thr Ala Ala Cys Lys His Gly Gly Asp Leu Tyr  
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| Asp | Arg | Gln | Lys | Glu | Leu | Glu | Lys | Lys | Arg | Lys | Leu | Glu | Thr | Asn | Pro |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Ile | Lys | Pro | Ser | Asn | Val | Glu | Pro | Met | Glu | Lys | Glu | Phe | Gly | Leu |
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|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Tyr | Cys | Gln | Glu | Leu | Lys | Lys | Val | Ile | Glu | Ala | Ser | Asp | Val | Val |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Glu | Val | Leu | Asp | Ala | Arg | Asp | Pro | Leu | Gly | Cys | Arg | Cys | Pro | Gln |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Glu | Glu | Ala | Ile | Val | Gln | Ser | Gly | Gln | Lys | Lys | Leu | Val | Leu | Ile |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |
| Leu | Asn | Lys | Ser | Asp | Leu | Val | Pro | Lys | Glu | Asn | Leu | Glu | Ser | Trp | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asn | Tyr | Leu | Lys | Lys | Glu | Leu | Pro | Thr | Val | Val | Phe | Arg | Ala | Ser | Thr |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Lys | Pro | Lys | Asp | Lys | Gly | Lys | Ile | Thr | Lys | Arg | Val | Lys | Ala | Lys | Lys |
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| Asn | Ala | Ala | Pro | Phe | Arg | Ser | Glu | Val | Cys | Phe | Gly | Lys | Glu | Gly | Leu |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Trp | Lys | Leu | Leu | Gly | Gly | Phe | Gln | Glu | Thr | Cys | Ser | Lys | Ala | Ile | Arg |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Gly | Val | Ile | Gly | Phe | Pro | Asn | Val | Gly | Lys | Ser | Ser | Ile | Ile | Asn |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Leu | Lys | Gln | Glu | Gln | Met | Cys | Asn | Val | Gly | Val | Ser | Met | Gly | Leu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Thr | Arg | Ser | Met | Gln | Val | Val | Pro | Leu | Asp | Lys | Gln | Ile | Thr | Ile | Ile |
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|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ala | Ser | Ala | Ile | Leu | Ser | Gln | Ala | Asp | Ala | Arg | Gln | Val | Val | Leu | Lys |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Tyr | Thr | Val | Pro | Gly | Tyr | Arg | Asn | Ser | Leu | Glu | Phe | Phe | Thr | Val | Leu |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Ala | Gln | Arg | Arg | Gly | Met | His | Gln | Lys | Gly | Gly | Ile | Pro | Asn | Val | Glu |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Gly | Ala | Ala | Lys | Leu | Leu | Trp | Ser | Glu | Trp | Thr | Gly | Ala | Ser | Leu | Ala |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Tyr | Tyr | Cys | His | Pro | Pro | Thr | Ser | Trp | Thr | Pro | Pro | Pro | Tyr | Phe | Asn |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Glu | Ser | Ile | Val | Val | Asp | Met | Lys | Ser | Gly | Phe | Asn | Leu | Glu | Glu | Leu |
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008220.69462960

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| Met | Gln | Gln | Ile | Arg | Met | Ser | Leu | Arg | Gly | Lys | Ala | Val | Val | Leu | Met |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Lys | Asn | Thr | Met | Met | Arg | Lys | Ala | Ile | Arg | Gly | His | Leu | Glu | Asn |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Pro | Ala | Leu | Glu | Lys | Leu | Leu | Pro | His | Ile | Arg | Gly | Asn | Val | Gly |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Phe | Val | Phe | Thr | Lys | Glu | Asp | Leu | Thr | Glu | Ile | Arg | Asp | Met | Leu | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Asn | Lys | Val | Pro | Ala | Ala | Ala | Arg | Ala | Gly | Ala | Ile | Ala | Pro | Cys |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Glu | Val | Thr | Val | Pro | Ala | Gln | Asn | Thr | Gly | Leu | Gly | Pro | Glu | Lys | Thr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ser | Phe | Phe | Gln | Ala | Leu | Gly | Ile | Thr | Thr | Lys | Ile | Ser | Arg | Gly | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Glu | Ile | Leu | Ser | Asp | Val | Gln | Leu | Ile | Lys | Thr | Gly | Asp | Lys | Val |
|     |     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |

000220" 59462960

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180 185 190  
Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg  
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Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu  
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Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala  
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<400> 11383

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| Met | Lys | Ala | Ala | Ala | Ala | Pro | Ala | Ser | Glu | Asp | Glu | Asp | Asp | Glu |
| 1   |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Asp | Glu | Asp | Asp | Glu | Asp | Asp | Asp | Asp | Glu | Glu | Asp | Asp | Ser |
|     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Glu | Glu | Ala | Met | Glu | Thr | Thr | Pro | Ala | Lys | Gly | Lys | Lys | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |
| Lys | Val | Val | Pro | Val | Lys | Ala | Lys | Asn | Val | Ala | Glu | Asp | Glu | Asp |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Glu | Glu | Asp | Asp | Glu | Asp | Glu | Asp | Asp | Asp | Asp | Glu | Asp | Asp | Glu |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |
| Asp | Asp | Asp | Asp | Glu | Asp | Asp | Glu | Glu | Glu | Glu | Glu | Glu | Glu | Glu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Pro | Val | Lys | Glu | Ala | Pro | Gly | Lys | Arg | Lys | Lys | Glu | Met | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |
| Gln | Lys | Ala | Ala | Pro | Glu | Ala | Lys | Lys | Gln | Lys | Val | Glu | Gly | Thr |
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| Pro | Thr | Thr | Ala | Phe | Asn | Leu | Phe | Val | Gly | Asn | Leu | Asn | Phe | Asn |
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| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |
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|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |
| Tyr | Val | Asp | Phe | Glu | Ser | Ala | Glu | Asp | Leu | Glu | Lys | Ala | Leu | Glu |
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$\langle 210 \rangle$  11384  
 $\langle 211 \rangle$  1516



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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Val | Tyr | Ser | Phe | Cys | Leu | Met | Asn | Tyr | Phe | Pro | Leu | Ala | Pro | Phe |
| 50  |     |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asn | Gln | Leu | Leu | Gln | Lys | Asp | Ile | Ile | Ser | Glu | Leu | Leu | Thr | Ser | Asp |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Asp | Met | Lys | Asn | Ala | Tyr | Lys | Leu | His | Thr | Leu | Asp | Thr | Cys | Leu | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Asp | Asp | Thr | Val | Tyr | Leu | Arg | Asp | Ile | Ala | Leu | Ser | Leu | Pro | Gln |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Pro | Arg | Glu | Leu | Pro | Ser | Ser | His | Thr | Asn | Ala | Lys | Val | Ala | Glu |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Val | Leu | Ser | Ser | Leu | Leu | Gly | Gly | Glu | Gly | His | Phe | Ser | Lys | Asp | Val |
| 130 |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| His | Leu | Pro | His | Asn | Tyr | His | Ile | Asp | Phe | Glu | Ile | Arg | Met | Asp | Thr |
| 145 |     |     |     | 150 |     |     |     |     |     | 155 |     |     |     |     | 160 |
| Asn | Arg | Asn | Gln | Val | Leu | Pro | Leu | Ser | Asp | Val | Asp | Thr | Thr | Ser | Ala |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Thr | Asp | Ile | Gln | Arg | Val | Ala | Val | Leu | Cys | Val | Ser | Arg | Ser | Ala | Tyr |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Cys | Leu | Gly | Ser | Ser | His | Pro | Arg | Gly | Phe | Leu | Ala | Met | Lys | Met | Arg |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| His | Leu | Asn | Ala | Met | Gly | Phe | His | Val | Ile | Leu | Val | Asn | Asn | Trp | Glu |
| 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Met | Asp | Lys | Leu | Glu | Met | Glu | Asp | Ala | Val | Thr | Phe | Leu | Lys | Thr | Lys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ile | Tyr | Ser | Val | Glu | Ala | Leu | Pro | Val | Ala | Ala | Val | Asn | Val | Gln | Ser |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Thr | Gln |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

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<400> 11387

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| Met | Ser | Phe | Arg | Lys | Val | Asn | Ile | Ile | Ile | Leu | Val | Leu | Ala | Val | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Phe | Leu | Leu | Val | Leu | His | His | Asn | Phe | Leu | Ser | Leu | Ser | Ser | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Arg | Asn | Glu | Val | Thr | Asp | Ser | Gly | Ile | Val | Gly | Pro | Gln | Pro | Ile |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asp | Phe | Val | Pro | Asn | Ala | Leu | Arg | His | Ala | Val | Asp | Gly | Arg | Gln | Glu |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Glu | Ile | Pro | Val | Val | Ile | Ala | Ala | Ser | Glu | Asp | Arg | Leu | Gly | Gly | Ala |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ile | Ala | Ala | Ile | Asn | Ser | Ile | Gln | His | Asn | Thr | Arg | Ser | Asn | Val | Ile |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Tyr | Ile | Val | Thr | Leu | Asn | Asn | Thr | Ala | Asp | His | Leu | Arg | Ser | Trp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Asn | Ser | Asp | Ser | Leu | Lys | Ser | Ile | Arg | Tyr | Lys | Ile | Val | Asn | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asp | Pro | Lys | Leu | Leu | Glu | Gly | Lys | Val | Lys | Glu | Asp | Pro | Asp | Gln | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Ser | Met | Lys | Pro | Leu | Thr | Phe | Ala | Arg | Phe | Tyr | Leu | Pro | Ile | Leu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Pro | Ser | Ala | Lys | Lys | Ala | Ile | Tyr | Met | Asp | Asp | Asp | Val | Ile | Val |

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| Met | Asp | Glu | Asp | Tyr | Tyr | Gly | Ser | Ala | Ala | Glu | Trp | Gly | Asp | Glu | Ala |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Asp | Gly | Gly | Gln | Gln | Glu | Asp | Asp | Ser | Gly | Glu | Gly | Glu | Asp | Asp | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu | Val | Gln | Gln | Glu | Cys | Leu | His | Lys | Phe | Ser | Thr | Arg | Asp | Tyr | Ile |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Met | Glu | Pro | Ser | Ile | Phe | Asn | Thr | Leu | Lys | Arg | Tyr | Phe | Gln | Ala | Gly |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Ser | Pro | Glu | Asn | Val | Ile | Gln | Leu | Leu | Ser | Glu | Asn | Tyr | Thr | Ala |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Val | Ala | Gln | Thr | Val | Asn | Leu | Leu | Ala | Glu | Trp | Leu | Ile | Gln | Thr | Gly |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Glu | Pro | Val | Gln | Val | Gln | Glu | Thr | Val | Glu | Asp | His | Leu | Lys | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Leu | Ile | Lys | His | Phe | Asp | Pro | Arg | Lys | Ala | Asp | Ser | Ile | Phe | Thr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Glu | Glu | Gly | Glu | Thr | Pro | Ala | Trp | Leu | Glu | Gln | Met | Ile | Ala | His | Thr |
|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Thr | Trp | Arg | Asp | Leu | Phe | Tyr | Lys | Leu | Ala | Glu | Ala | His | Pro | Asp | Cys |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Leu | Met | Leu | Asn | Phe | Thr | Val | Lys | Leu | Ile | Ser | Asp | Ala | Gly | Tyr | Gln |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gly | Glu | Ile | Thr | Ser | Val | Ser | Thr | Ala | Cys | Gln | Gln | Leu | Glu | Val | Phe |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ser | Arg | Val | Leu | Arg | Thr | Ser | Leu | Ala | Thr | Ile | Leu | Asp | Gly | Gly | Glu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Glu | Asn | Leu | Glu | Lys | Asn | Leu | Pro | Glu | Phe | Ala | Lys | Met | Val | Cys | His |
|     |     | 210 |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Glu | His | Thr | Tyr | Leu | Phe | Ala | Gln | Ala | Met | Met | Ser | Val | Leu | Ala |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | Glu | Glu | Gln | Gly | Gly | Ser | Ala | Val | Arg | Arg | Ile | Ala | Gln | Glu | Val |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Gln | Arg | Phe | Ala | Gln | Glu | Lys | Gly | His | Asp | Ala | Ser | Gln | Ile | Thr | Leu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Leu | Gly | Thr | Ala | Ala | Ser | Tyr | Pro | Arg | Ala | Cys | Gln | Ala | Leu | Gly |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ala | Met | Leu | Ser | Lys | Gly | Ala | Leu | Asn | Pro | Ala | Asp | Ile | Thr | Val | Leu |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Phe | Lys | Met | Phe | Thr | Ser | Met | Asp | Pro | Pro | Pro | Val | Glu | Leu | Ile | Arg |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Val | Pro | Ala | Phe | Leu | Asp | Leu | Phe | Met | Gln | Ser | Leu | Phe | Lys | Pro | Gly |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ala | Arg | Ile | Asn | Gln | Asp | His | Lys | His | Lys | Tyr | Ile | His | Ile | Leu | Ala |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Tyr | Ala | Ala | Ser | Val | Val | Glu | Thr | Trp | Lys | Lys | Asn | Lys | Arg | Val | Ser |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |
| Ile | Asn | Lys | Asp | Glu | Leu | Lys | Ser | Thr | Ser | Lys | Ala | Val | Glu | Thr | Val |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| His | Asn | Leu | Cys | Cys | Asn | Glu | Asn | Lys | Gly | Ala | Ser | Glu | Leu | Val | Ala |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Glu | Leu | Ser | Thr | Leu | Tyr | Gln | Cys | Ile | Arg | Phe | Pro | Val | Val | Ala | Met |
|     |     |     | 405 |     |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Gly | Val | Leu | Lys | Arg | Val | Asp | Trp | Thr | Val | Ser | Glu | Pro | Arg | Tyr | Phe |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Gln | Leu | Gln | Thr | Asp | His | Thr | Pro | Val | His | Leu | Ala | Leu | Leu | Asp | Glu |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Ile | Ser | Thr | Cys | His | Gln | Leu | Leu | His | Pro | Gln | Val | Leu | Gln | Leu | Leu |
|     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Val | Lys | Leu | Phe | Glu | Thr | Glu | His | Ser | Gln | Leu | Asp | Val | Met | Glu | Gln |
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| aggggatttc  | cccggaagag | ggaggcggtg | acgcaaccac | accgcgttga  | ggctctctat | 180  |  |
| gaatctctga  | gagtcctaga | gaaggacacg | tctgccacat | ccagtcagt   | taatggatca | 240  |  |
| ccccaagcgg  | aacaaccttc | attggaatct | acaagcaaag | aagccttctt  | tagcagagtg | 300  |  |
| gaaacatttt  | cttctttgaa | atgggcaggt | aagccctttg | agctgtctcc  | actcgtctgt | 360  |  |
| gcaaaatatg  | gctgggtcac | agtggaatgt | gatatgctca | agtgtcttag  | ctgtcaagct | 420  |  |
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| ctagatcggt  | ttcaaagcct | ttgtcacttg | gacctccagc | ttccttccct  | aaggccggag | 660  |  |
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| ggcttccagc  | agattgaatc | gtccatgact | gacctggatg | catcctttgg  | cctgaccagc | 960  |  |
| tccccaatcc  | caggccttga | ggggcgacca | gagcgcctac | ctctgggtgcc | tgaatctcct | 1020 |  |
| cggaggatga  | tgaccgggag | ccaggatgcc | actttctccc | caggctcaga  | gcaggctgaa | 1080 |  |
| aagagccctg  | gtcccattgt | ctctcgaact | cggagctggg | actcttccag  | tcctgttgac | 1140 |  |
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Val Thr Ala Cys Ile Leu Ser Val Cys Gly Trp Ala Cys Ser Ser Ser

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<210> 11393  
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 <213> Homo sapiens

<400> 11393

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| Met | Ser | Ala | Glu | Val | Lys | Val | Thr | Gly | Gln | Asn | Gln | Glu | Gln | Phe | Leu |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Leu | Leu | Ala | Lys | Ser | Ala | Lys | Gly | Ala | Ala | Leu | Ala | Thr | Leu | Ile | His |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Gln | Val | Leu | Glu | Ala | Pro | Gly | Val | Tyr | Val | Phe | Gly | Glu | Leu | Leu | Asp |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Met | Pro | Asn | Val | Arg | Glu | Leu | Ala | Glu | Ser | Asp | Phe | Ala | Ser | Thr | Phe |
|     | 50  |     |     |     | 55  |     |     | 60  |     |     |     |     |     |     |     |
| Arg | Leu | Leu | Thr | Val | Phe | Ala | Tyr | Gly | Thr | Tyr | Ala | Asp | Tyr | Leu | Ala |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |     |
| Glu | Ala | Arg | Asn | Leu | Pro | Pro | Leu | Thr | Glu | Ala | Gln | Lys | Asn | Lys | Leu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Arg | His | Leu | Ser | Val | Val | Thr | Leu | Ala | Ala | Lys | Val | Lys | Cys | Ile | Pro |

|     |   |  |     |  |     |
|-----|---|--|-----|--|-----|
|     | 100   |  | 105 |  | 110 |
| Tyr | Ala Val Leu Leu Glu Ala Leu Ala Leu Arg Asn Val Arg Gln Leu |  |     |  |     |
|     | 115   |  | 120 |  | 125 |
| Glu | Asp Leu Val Ile Glu Ala Val Tyr Ala Asp Val Leu Arg Gly Ser |  |     |  |     |
|     | 130   |  | 135 |  | 140 |
| Leu | Asp Gln Arg Asn Gln Arg Leu Glu Val Asp Tyr Ser Ile Gly Arg |  |     |  |     |
|     | 145   |  | 150 |  | 155 |
| Asp | Ile Gln Arg Gln Asp Leu Ser Ala Ile Ala Arg Thr Leu Gln Glu |  |     |  |     |
|     | 165   |  | 170 |  | 175 |
| Trp | Cys Val Gly Cys Glu Val Val Leu Ser Gly Ile Glu Glu Gln Val |  |     |  |     |
|     | 180   |  | 185 |  | 190 |
| Ser | Arg Ala Asn Gln His Lys Glu Gln Gln Leu Gly Leu Lys Gln Gln |  |     |  |     |
|     | 195   |  | 200 |  | 205 |
| Ile | Glu Ser Glu Val Ala Asn Leu Lys Glu Thr Ile Lys Val Thr Thr |  |     |  |     |
|     | 210   |  | 215 |  | 220 |
| Ala | Ala Ala Ala Ala Ala Thr Ser Gln Asp Pro Glu Gln His Leu Thr |  |     |  |     |
|     | 225   |  | 230 |  | 235 |
| Glu | Leu Arg Glu Pro Ala Pro Gly Thr Asn Gln Arg Gln Pro Ser Lys |  |     |  |     |
|     | 245   |  | 250 |  | 255 |
| Lys | Ala Ser Lys Gly Lys Gly Leu Arg Gly Ser Ala Lys Ile Trp Ser |  |     |  |     |
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| Lys | Ser Asn   |  |     |  |     |
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 <222> (150).. (1337)

<400> 11394

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| accccgctgc  | atcgcccagg | ccgagcacga | tgccccctaa | aaagggaggt  | gatggaatta | 180 |
| aaccaccccc  | aatcattgga | aggtttggaa | cctcactgaa | aattgggtatt | gttggattgc | 240 |
| caaattgctgg | gaaatctact | ttcttcaatg | tgtaaaccaa | tagtcaggct  | tcagcagaaa | 300 |
| acttcccgtt  | ctgcactatt | gatcctaatt | agagcagagt | acctgtgcca  | gatgaaaggt | 360 |
| ttgactttct  | ttgtcaatac | cacaaaccag | caagcaaaat | tcctgccttt  | ctaaatgttg | 420 |
| tggatattgc  | tggccttgtg | aaaggagctc | acaatgggca | gggcctgggg  | aatgcttttt | 480 |
| tatctcatat  | tagtgcctgt | gatggcatct | ttcatctaac | acgtgctttt  | gaagatgatg | 540 |
| atatcacgca  | cgttgaagga | agtgtagatc | ctattcgaga | tatagaaata  | atacatgaag | 600 |
| agcttcagct  | taaagatgag | gaaatgattg | ggcccattat | agataaaacta | gaaaaggttg | 660 |
| ctgtgagagg  | aggagataaa | aaactaaaac | ctgaatatga | tatcatgtgc  | aaagtaaaat | 720 |
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Pro | Lys | Lys | Gly | Gly | Asp | Gly | Ile | Lys | Pro | Pro | Pro | Ile | Ile |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Gly | Arg | Phe | Gly | Thr | Ser | Leu | Lys | Ile | Gly | Ile | Val | Gly | Leu | Pro | Asn |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Gly | Lys | Ser | Thr | Phe | Phe | Asn | Val | Leu | Thr | Asn | Ser | Gln | Ala | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     | 45  |     |     |     |     |
| Ala | Glu | Asn | Phe | Pro | Phe | Cys | Thr | Ile | Asp | Pro | Asn | Glu | Ser | Arg | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Pro | Val | Pro | Asp | Glu | Arg | Phe | Asp | Phe | Leu | Cys | Gln | Tyr | His | Lys | Pro |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ala | Ser | Lys | Ile | Pro | Ala | Phe | Leu | Asn | Val | Val | Asp | Ile | Ala | Gly | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Val | Lys | Gly | Ala | His | Asn | Gly | Gln | Gly | Leu | Gly | Asn | Ala | Phe | Leu | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| His | Ile | Ser | Ala | Cys | Asp | Gly | Ile | Phe | His | Leu | Thr | Arg | Ala | Phe | Glu |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Asp | Asp | Asp | Ile | Thr | His | Val | Glu | Gly | Ser | Val | Asp | Pro | Ile | Arg | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ile | Glu | Ile | Ile | His | Glu | Glu | Leu | Gln | Leu | Lys | Asp | Glu | Glu | Met | Ile |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Gly | Pro | Ile | Ile | Asp | Lys | Leu | Glu | Lys | Val | Ala | Val | Arg | Gly | Gly | Asp |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Lys | Lys | Leu | Lys | Pro | Glu | Tyr | Asp | Ile | Met | Cys | Lys | Val | Lys | Ser | Trp |

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 <212> PRT  
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 Thr Leu Val Phe Ser Ser Leu Leu Leu Phe Gly Phe Ala Glu Gln Lys  
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 Gln Leu Leu Glu Val Glu Leu Tyr Ala Asp Tyr Arg Glu Asn Ser Tyr  
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 Val Pro Thr Thr Gly Ala Ile Ile Glu Ile His Ser Lys Arg Ile Gln  
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<222> (30).. (1484)

<400> 11399

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gcggcagcag tgacagcaca ctgaagggtg gggatgtgaa ggcccagaag ctggccatgg 1380
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<210> 11400  
<211> 485  
<212> PRT  
<213> Homo sapiens

<400> 11400

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Leu Leu Val Gln Phe Gln Asp Glu Gly Gly Gln Leu Leu Gly Ser Pro
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-4867/13211-

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              405              410              415
Val Tyr Gln Ile Ala Trp Ser Ala Asp Ser Arg Leu Leu Val Ser Gly
              420              425              430
Ser Ser Asp Ser Thr Leu Lys Val Trp Asp Val Lys Ala Gln Lys Leu
              435              440              445
Ala Met Asp Leu Pro Gly His Ala Asp Glu Val Tyr Ala Val Asp Trp
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Ser Pro Asp Gly Gln Arg Val Ala Ser Gly Gly Lys Asp Lys Cys Leu
465              470              475              480
Arg Ile Trp Arg Arg
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caacaagtgg atggatttga aaagcccaag ctacttctgg gacagtatcc taccaggccg 180
cacattgcag catgtatgct ctataacaatc cataacactt atgatgacat tgaaaataaa 240
gtcgttgcag atctaggatg tggttgtgga gtacttagca tcggaaactgc aatgttagga 300
gcagggttgt gtgttggatt tgacatagat gaagacgcat tggaaatatt taataggaat 360
gcagaagagt ttgagttaac aaatattgac atggttcaat gtgatgtgtg cttattatct 420
aacagaatgt ccaagtcatt cgatacagta attatgaatc ctccctttgg gacccaaaat 480
aataaaggga cagatatggc ttttctaaag actgcttttg aaatggcaag aacagcagta 540
tattccttac acaaatcctc aactagagaa catgttcaaa agaaagctgc agaattgaaa 600
atcaagatag atattatagc agaacttoga tatgacctgc cagcatcata caagtttcac 660
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<212> PRT  
<213> Homo sapiens

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Asp Gly Phe Glu Lys Pro Lys Leu Leu Leu Gly Gln Tyr Pro Thr Arg
              20              25              30
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09629459.072300

-4868/13211-

Pro His Ile Ala Ala Cys Met Leu Tyr Thr Ile His Asn Thr Tyr Asp  
35 40 45  
Asp Ile Glu Asn Lys Val Val Ala Asp Leu Gly Cys Gly Cys Gly Val  
50 55 60  
Leu Ser Ile Gly Thr Ala Met Leu Gly Ala Gly Leu Cys Val Gly Phe  
65 70 75 80  
Asp Ile Asp Glu Asp Ala Leu Glu Ile Phe Asn Arg Asn Ala Glu Glu  
85 90 95  
Phe Glu Leu Thr Asn Ile Asp Met Val Gln Cys Asp Val Cys Leu Leu  
100 105 110  
Ser Asn Arg Met Ser Lys Ser Phe Asp Thr Val Ile Met Asn Pro Pro  
115 120 125  
Phe Gly Thr Lys Asn Asn Lys Gly Thr Asp Met Ala Phe Leu Lys Thr  
130 135 140  
Ala Leu Glu Met Ala Arg Thr Ala Val Tyr Ser Leu His Lys Ser Ser  
145 150 155 160  
Thr Arg Glu His Val Gln Lys Lys Ala Ala Glu Trp Lys Ile Lys Ile  
165 170 175  
Asp Ile Ile Ala Glu Leu Arg Tyr Asp Leu Pro Ala Ser Tyr Lys Phe  
180 185 190  
His Lys Lys Lys Ser Val Asp Ile Glu Val Asp Leu Ile Arg Phe Ser  
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Phe

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<213> Homo sapiens

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aatattcaag ctgaaatcta ccagaaaaac ctggaaattg aactcctgaa actagaaaaa 240  
gatacagcag atgttgTTca tcttttcttt ttggctcaga agtgtcatac tctgcaaagc 300  
atgaataatc atttggaagc agtgctgaaa gagaagagat cccttaggca aagactgttg 360  
aaacccatgt gccaggaaaa cttacctatt gaagctgttt atcacagata tatggtacat 420  
ttgctggagt tggctgtgac tticattgag agattagaaa cccaccttga aacaattaga 480  
aatattcctc atttagctgc aaatctaaag aaaatgaacc aggctttagc aaagatggat 540  
atattggtga ctgagacaga agaactggca gagaatatac tcaagtggcg taaacaacaa 600  
aacgaagttt cgtcttgtat ccccaaaata ttagctgaag aaagttatct ttataaacat 660  
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00629469.072800



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Val | Thr | Glu | Thr | Glu | Glu | Leu | Ala | Glu | Asn | Ile | Leu | Lys | Trp | Arg | Lys |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gln | Gln | Asn | Glu | Val | Ser | Ser | Cys | Ile | Pro | Lys | Ile | Leu | Ala | Glu | Glu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ser | Tyr | Leu | Tyr | Lys | His | Asp | Ile | Ile | Met | Pro | Pro | Leu | Pro | Phe | Thr |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Ser | Lys | Val | His | Val | Gln | Thr | Ile | Asn | Ala | Lys |     |     |     |     |     |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     |     |

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (200).. (745)

<400> 11405

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| tgacagagga  | gaacaagtaa | ctctcttct  | cttcaatgat | tgccatagaga | tagcaagaaa  | 120  |
| acggcacaag  | gttattggca | cttttaggag | tcctcatggc | caaaccgac   | ccccagcttc  | 180  |
| tcttaagcat  | attcacctaa | tgccctcttc | tcagattaag | aaggtattgg  | acataagaga  | 240  |
| gacagaagat  | tgccataatg | cttttgccct | gcttgtgagg | ccaccaacag  | agcaggcaaa  | 300  |
| tgtgtctactc | agtttccaga | tgacatcaga | tgaacttcca | aaagaaaact  | ggctaaagat  | 360  |
| gctgtgtcga  | catgtagcta | acaccatttg | taaagcagat | gctgagaatc  | ttattttatac | 420  |
| tgctgatcca  | gaatcctttg | aagtaaatac | aaaagatatg | gacagtacat  | tgagtagagc  | 480  |
| atcaagagca  | ataaaaaaga | cttcaaaaaa | ggttacaaga | gcattctctt  | tctccaaaaac | 540  |
| tccaaaaaga  | gctcttcgaa | gggctcttat | gacatcccac | ggctcagtgg  | agggaagaag  | 600  |
| tccttccagc  | aatgataagc | atgtaatgag | tcgtctttct | agcacatcat  | cattagcagg  | 660  |
| tatcccttct  | ccctcccttg | tcagccttcc | ttccttcttt | gaaaggagaa  | gtcatacggt  | 720  |
| aagtagatct  | acaactcatt | tgatatgaag | cgttaccaaa | atctttaaatt | atagaaatgt  | 780  |
| atagacacct  | catactcaaa | taagaaactg | acttaaattg | tacttgtaat  | tagcacttgg  | 840  |
| tgaaagctgg  | aaggaagata | aataacacta | aactatgcta | tttgattttt  | cttcttgaaa  | 900  |
| gggtaagggt  | tacctgttac | attttcaagt | taattcatgt | aaaaaatgat  | agtgattttg  | 960  |
| atgtaattta  | tctcttgttt | gaatctgtca | ttcaaaggcc | aataatttaa  | gttgctatca  | 1020 |
| gctgatatta  | gtagctttgc | aaccttgata | gagtaaataa | attttatggg  | cgggtgccaa  | 1080 |
| atactgctgt  | gaatctattt | gtatagtatc | catgaatgaa | tttatggaaa  | tagatatttg  | 1140 |
| tgcagctcaa  | tttatgcaga | gattaaatga | catcataata | ctggatgaaa  | acttgcatag  | 1200 |
| aattctgatt  | aaatagtggg | tctgtttcac | atgtgcagtt | tgaagtattt  | aaataaccac  | 1260 |
| tcctttcaca  | gtttattttc | ttctcaagcg | ttttcaagat | ctagcatgtg  | gatttttaaaa | 1320 |
| gatttgcctt  | cattaacagg | aataacattt | aaaggagatt | gtttcaaaaat | atttttgcaa  | 1380 |
| attgagataa  | ggacagaaag | attgagaaac | attgtatatt | ttgcaaaaaac | aagatgtttg  | 1440 |
| tagctgtttc  | agagagagta | cgggtatatt | atggtaattt | tatccactag  | caaactcttga | 1500 |
| tttagtttga  | tagtgtgtgg | aattttattt | tgaaggataa | gaccatggga  | aaattgtggg  | 1560 |
| aaagactgtt  | tgtacccttc | atgaaataat | tctgaagttg | ccatcagttt  | tactaatctt  | 1620 |
| ctgtgaaatg  | catagatatg | cgcagtgtca | actttttatt | gtggtcttat  | aattaaatgt  | 1680 |

009220" 69462960

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 <211> 182  
 <212> PRT  
 <213> Homo sapiens

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 Ala Asn Val Leu Leu Ser Phe Gln Met Thr Ser Asp Glu Leu Pro Lys  
 35 40 45  
 Glu Asn Trp Leu Lys Met Leu Cys Arg His Val Ala Asn Thr Ile Cys  
 50 55 60  
 Lys Ala Asp Ala Glu Asn Leu Ile Tyr Thr Ala Asp Pro Glu Ser Phe  
 65 70 75 80  
 Glu Val Asn Thr Lys Asp Met Asp Ser Thr Leu Ser Arg Ala Ser Arg  
 85 90 95  
 Ala Ile Lys Lys Thr Ser Lys Lys Val Thr Arg Ala Phe Ser Phe Ser  
 100 105 110  
 Lys Thr Pro Lys Arg Ala Leu Arg Arg Ala Leu Met Thr Ser His Gly  
 115 120 125  
 Ser Val Glu Gly Arg Ser Pro Ser Ser Asn Asp Lys His Val Met Ser  
 130 135 140  
 Arg Leu Ser Ser Thr Ser Ser Leu Ala Gly Ile Pro Ser Pro Ser Leu  
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 Ser Thr Thr His Leu Ile  
 180

<210> 11407  
 <211> 1973  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (148).. (1692)

008220.69462960

<400> 11407

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gcagccactg tacgctttga cgacactctc agacatgctg tgcaacttaa cgtcactgcc 540
acccggcagc tcttgcttat ggctagtcag atgccaaagc tggaagcctt tatacatatc 600
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<210> 11408

<211> 515

<212> PRT

<213> Homo sapiens

<400> 11408

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Gly Ala Thr Gly Phe Leu Gly Lys Val Leu Met Glu Lys Leu Phe Arg
             20             25             30
Thr Ser Pro Asp Leu Lys Val Ile Tyr Ile Leu Val Arg Pro Lys Ala
          35             40             45

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-4873/13211-

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Gln | Thr | Leu | Gln | Gln | Arg | Val | Phe | Gln | Ile | Leu | Asp | Ser | Lys | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Glu | Lys | Val | Lys | Glu | Val | Cys | Pro | Asn | Val | His | Glu | Lys | Ile | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ala | Ile | Tyr | Ala | Asp | Leu | Asn | Gln | Asn | Asp | Phe | Ala | Ile | Ser | Lys | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Asp | Met | Gln | Glu | Leu | Leu | Ser | Cys | Thr | Asn | Ile | Ile | Phe | His | Cys | Ala |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Thr | Val | Arg | Phe | Asp | Asp | Thr | Leu | Arg | His | Ala | Val | Gln | Leu | Asn |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Val | Thr | Ala | Thr | Arg | Gln | Leu | Leu | Leu | Met | Ala | Ser | Gln | Met | Pro | Lys |
| 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |     |
| Leu | Glu | Ala | Phe | Ile | His | Ile | Ser | Thr | Ala | Tyr | Ser | Asn | Cys | Asn | Leu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Lys | His | Ile | Asp | Glu | Val | Thr | Tyr | Pro | Cys | Pro | Val | Glu | Pro | Lys | Lys |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ile | Ile | Asp | Ser | Leu | Glu | Trp | Leu | Asp | Asp | Ala | Ile | Ile | Asp | Glu | Ile |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Thr | Pro | Lys | Leu | Ile | Arg | Asp | Trp | Pro | Asn | Ile | Tyr | Thr | Tyr | Thr | Lys |
|     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     |
| Ala | Leu | Gly | Glu | Met | Val | Val | Gln | Gln | Glu | Ser | Arg | Asn | Leu | Asn | Ile |
| 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Ala | Ile | Ile | Arg | Pro | Ser | Ile | Val | Gly | Ala | Thr | Trp | Gln | Glu | Pro | Phe |
| 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     |     | 240 |
| Pro | Gly | Trp | Val | Asp | Asn | Ile | Asn | Gly | Pro | Asn | Gly | Ile | Ile | Ile | Ala |
|     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |
| Thr | Gly | Lys | Gly | Phe | Leu | Arg | Ala | Ile | Lys | Ala | Thr | Pro | Met | Ala | Val |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |
| Ala | Asp | Val | Ile | Pro | Val | Asp | Thr | Val | Val | Asn | Leu | Met | Leu | Ala | Val |
|     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |     |
| Gly | Trp | Tyr | Thr | Ala | Val | His | Arg | Pro | Lys | Ser | Thr | Leu | Val | Tyr | His |
| 290 |     |     |     |     | 295 |     |     |     |     |     | 300 |     |     |     |     |
| Ile | Thr | Ser | Gly | Asn | Met | Asn | Pro | Cys | Asn | Trp | His | Lys | Met | Gly | Val |
| 305 |     |     |     | 310 |     |     |     |     |     | 315 |     |     |     |     | 320 |
| Gln | Val | Leu | Ala | Thr | Phe | Glu | Lys | Ile | Pro | Phe | Glu | Arg | Pro | Phe | Arg |
|     |     |     | 325 |     |     |     |     | 330 |     |     |     |     |     | 335 |     |
| Arg | Pro | Asn | Ala | Asn | Phe | Thr | Ser | Asn | Ser | Phe | Thr | Ser | Gln | Tyr | Trp |
|     |     | 340 |     |     |     |     | 345 |     |     |     |     |     | 350 |     |     |
| Asn | Ala | Val | Ser | His | Arg | Ala | Pro | Ala | Ile | Ile | Tyr | Asp | Cys | Tyr | Leu |
|     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |     |
| Arg | Leu | Thr | Gly | Arg | Lys | Pro | Arg | Met | Thr | Lys | Leu | Met | Asn | Arg | Leu |
| 370 |     |     |     |     | 375 |     |     |     |     |     | 380 |     |     |     |     |
| Leu | Arg | Thr | Val | Ser | Met | Leu | Glu | Tyr | Phe | Ile | Asn | Arg | Ser | Trp | Glu |
| 385 |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     |     | 400 |
| Trp | Ser | Thr | Tyr | Asn | Thr | Glu | Met | Leu | Met | Ser | Glu | Leu | Ser | Pro | Glu |
|     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |     |
| Asp | Gln | Arg | Val | Phe | Asn | Phe | Asp | Val | Arg | Gln | Leu | Asn | Trp | Leu | Glu |
|     |     | 420 |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |

09629469.072800



Tyr Ile Glu Asn Tyr Val Leu Gly Val Lys Lys Tyr Leu Leu Lys Glu  
435 440 445  
Asp Met Ala Gly Ile Pro Lys Ala Lys Gln Arg Leu Lys Arg Leu Arg  
450 455 460  
Asn Ile His Tyr Leu Phe Asn Thr Ala Leu Phe Leu Ile Ala Trp Arg  
465 470 475 480  
Leu Leu Ile Ala Arg Ser Gln Met Ala Arg Asn Val Trp Phe Phe Ile  
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Val Ser Phe Cys Tyr Lys Phe Leu Ser Tyr Phe Arg Ala Ser Ser Thr  
500 505 510  
Leu Lys Val  
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<222> (5).. (1678)

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-4876/13211-

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          35             40             45
Tyr Thr Leu Ile Pro Ala Val Val Ile Ile Ala Val Gly Ala Leu Leu
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-4878/13211-

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<400> 11414

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| Met | Ala | Ser | Ala | Asp | Ser | Arg | Arg | Leu | Ala | Asp | Gly | Gly | Gly | Ala | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Thr | Phe | Gln | Pro | Tyr | Leu | Asp | Thr | Leu | Arg | Gln | Glu | Leu | Gln | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Asp | Pro | Thr | Leu | Leu | Ser | Val | Val | Val | Ala | Val | Leu | Ala | Val | Leu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Thr | Leu | Val | Phe | Trp | Lys | Leu | Ile | Arg | Ser | Arg | Arg | Ser | Ser | Gln |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Ala | Val | Leu | Leu | Val | Gly | Leu | Cys | Asp | Ser | Gly | Lys | Thr | Leu | Leu |
|     |     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |
| Phe | Val | Arg | Leu | Leu | Thr | Gly | Leu | Tyr | Arg | Asp | Thr | Gln | Thr | Ser | Ile |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Asp | Ser | Cys | Ala | Val | Tyr | Arg | Val | Asn | Asn | Asn | Arg | Gly | Asn | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Thr | Leu | Ile | Asp | Leu | Pro | Gly | His | Glu | Ser | Leu | Arg | Leu | Gln | Phe |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Glu | Arg | Phe | Lys | Ser | Ser | Ala | Gly | Ala | Ile | Val | Phe | Val | Val | Asp |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Ser | Ala | Ala | Phe | Gln | Arg | Glu | Val | Lys | Asp | Val | Ala | Glu | Phe | Leu | Tyr |
|     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Gln | Val | Leu | Ile | Asp | Ser | Met | Gly | Leu | Lys | Asn | Thr | Pro | Ser | Phe | Leu |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ile | Ala | Cys | Asn | Lys | Gln | Asp | Ile | Ala | Met | Ala | Lys | Ser | Ala | Lys | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Gln | Gln | Gln | Leu | Glu | Lys | Glu | Leu | Asn | Thr | Leu | Arg | Val | Thr | Arg |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ser | Ala | Ala | Pro | Ser | Thr | Leu | Tyr | Ser | Ser | Ser | Thr | Ala | Pro | Ala | Gln |
|     | 210 |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |
| Leu | Gly | Lys | Lys | Gly | Lys | Glu | Phe | Glu | Phe | Ser | Gln | Leu | Pro | Leu | Lys |
| 225 |     |     |     |     |     | 230 |     |     |     | 235 |     |     |     |     | 240 |
| Val | Glu | Phe | Leu | Glu | Cys | Ser | Ala | Lys | Gly | Gly | Arg | Gly | Asp | Val | Gly |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Ser | Ala | Asp | Ile | Gln | Asp | Leu | Glu | Lys | Trp | Leu | Ala | Lys | Ile | Ala |     |
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 <212> DNA  
 <213> Homo sapiens

<400> 11415

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<212> DNA

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|     |     |     |     |     | 405 |     |     |     | 410 |     |     |     | 415 |
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|     |     |     |     |     | 450 |     |     |     | 455 |     |     |     | 460 |
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| 465 |     |     |     |     | 470 |     |     |     | 475 |     |     |     | 480 |
| Asn | Pro | Val | Tyr | Tyr | Gly | Pro | Ser | Asp | Phe | Phe | Ile | Gly | Ala |
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| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Val | Asn | Phe | Thr | Gln | Glu | Glu | Trp | Gln | Gln | Leu | Asp | Pro | Ala | Gln | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Leu | Tyr | Arg | Asp | Val | Met | Leu | Glu | Asn | Tyr | Ser | Asn | Leu | Val | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Val | Gly | Tyr | His | Val | Ser | Lys | Pro | Asp | Val | Ile | Phe | Lys | Leu | Glu | Gln |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gly | Glu | Glu | Pro | Trp | Ile | Val | Glu | Glu | Phe | Ser | Asn | Gln | Asn | Tyr | Pro |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Asp | Ile | Asp | Asp | Ala | Leu | Glu | Lys | Asn | Lys | Glu | Ile | Gln | Asp | Lys | His |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Thr | Gln | Thr | Val | Phe | Phe | Ser | Asn | Lys | Thr | Leu | Ile | Thr | Glu | Arg |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Asn | Val | Phe | Gly | Glu | Thr | Leu | Asn | Leu | Gly | Met | Asn | Ser | Val | Pro |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ser | Arg | Lys | Met | Pro | Tyr | Lys | Cys | Asn | Pro | Gly | Gly | Asn | Ser | Leu | Lys |
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| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ile | Pro | Asp | Gly | Tyr | Ser | Gly | Phe | Gly | Lys | His | Glu | Lys | Ser | His | Leu |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Gly | Met | Lys | Lys | Tyr | Arg | Tyr | Asn | Pro | Met | Arg | Lys | Ala | Ser | Asn | Gln |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Asn | Glu | Asn | Leu | Ile | Leu | His | Gln | Asn | Ile | Gln | Ile | Leu | Lys | Gln | Pro |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Asp | Tyr | Asn | Lys | Cys | Gly | Lys | Thr | Phe | Phe | Lys | Arg | Ala | Ile | Leu |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Cys | Arg | Lys | Thr | Phe | Ser | Lys | Arg | Ser | Thr | Leu | Ile | Val | His | Gln |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Ile | His | Thr | Gly | Glu | Lys | Pro | Tyr | Val | Cys | Ser | Asp | Cys | Arg | Lys |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Thr | Phe | Arg | Val | Lys | Thr | Ser | Leu | Thr | Arg | His | Arg | Arg | Ile | His | Thr |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Gly | Glu | Arg | Pro | Tyr | Glu | Cys | Ser | Glu | Cys | Arg | Lys | Thr | Phe | Ile | Asp |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| Lys | Ser | Ala | Leu | Ile | Val | His | Gln | Lys | Ile | His | Gly | Gly | Glu | Lys | Ser | 305 | 310 | 315 | 320 |
| Tyr | Glu | Cys | Asn | Glu | Cys | Gly | Lys | Thr | Phe | Phe | Arg | Lys | Ser | Ala | Leu | 325 | 330 | 335 |     |
| Ala | Glu | His | Phe | Arg | Ser | His | Thr | Gly | Glu | Lys | Pro | Tyr | Glu | Cys | Lys | 340 | 345 | 350 |     |
| Glu | Cys | Gly | Asn | Ala | Phe | Ser | Lys | Lys | Ser | Tyr | Leu | Val | Val | His | Gln | 355 | 360 | 365 |     |
| Arg | Thr | His | Arg | Gly | Glu | Lys | Pro | Asn | Glu | Cys | Lys | Glu | Cys | Gly | Lys | 370 | 375 | 380 |     |
| Thr | Phe | Phe | Cys | Gln | Ser | Ala | Leu | Thr | Ala | His | Gln | Arg | Ile | His | Thr | 385 | 390 | 395 | 400 |
| Gly | Glu | Lys | Pro | Tyr | Glu | Cys | Ser | Glu | Cys | Glu | Lys | Thr | Phe | Phe | Cys | 405 | 410 | 415 |     |
| Gln | Ser | Ala | Leu | Asn | Val | His | Arg | Arg | Gly | His | Thr | Gly | Glu | Lys | Pro | 420 | 425 | 430 |     |
| Tyr | Glu | Cys | Ser | Gln | Cys | Gly | Lys | Phe | Leu | Cys | Thr | Lys | Ser | Ala | Leu | 435 | 440 | 445 |     |
| Ile | Ala | His | Gln | Ile | Thr | His | Arg | Gly | Lys | Lys | Ser | Tyr | Glu | Cys | Asn | 450 | 455 | 460 |     |
| Glu | Cys | Gly | Lys | Phe | Phe | Cys | His | Lys | Ser | Thr | Leu | Thr | Ile | His | Gln | 465 | 470 | 475 | 480 |
| Arg | Thr | His | Thr | Gly | Glu | Lys | His | Gly | Val | Phe | Asn | Lys | Cys | Gly | Arg | 485 | 490 | 495 |     |
| Ile | Ser | Ile | Val | Lys | Ser | Asn | Cys | Ser | Gln | Cys | Lys | Arg | Met | Asn | Thr | 500 | 505 | 510 |     |
| Lys | Glu | Asn | Leu | Tyr | Glu | Cys | Ser | Glu | His | Gly | His | Ala | Val | Ser | Lys | 515 | 520 | 525 |     |
| Asn | Ser | His | Leu | Ile | Val | His | Gln | Arg | Thr | Ile | Trp | Glu | Arg | Pro | Tyr | 530 | 535 | 540 |     |
| Glu | Cys | Asn | Glu | Cys | Gly | Arg | Thr | Tyr | Cys | Arg | Lys | Ser | Ala | Leu | Thr | 545 | 550 | 555 | 560 |
| His | His | Gln | Arg | Thr | His | Thr | Gly | Gln | Arg | Pro | Tyr | Glu | Cys | Asn | Glu | 565 | 570 | 575 |     |
| Cys | Gly | Lys | Thr | Phe | Cys | Gln | Lys | Phe | Ser | Phe | Val | Glu | His | Gln | Arg | 580 | 585 | 590 |     |
| Thr | His | Thr | Gly | Glu | Lys | Pro | Tyr | Glu | Cys | Asn | Glu | Cys | Gly | Lys | Ser | 595 | 600 | 605 |     |
| Phe | Cys | His | Lys | Ser | Ala | Phe | Arg | Val | His | Arg | Arg | Ile | His | Thr | Gly | 610 | 615 | 620 |     |
| Glu | Lys | Pro | Tyr | Glu | Cys | Asn | Gln | Cys | Gly | Lys | Thr | Tyr | Arg | Arg | Leu | 625 | 630 | 635 | 640 |
| Trp | Thr | Leu | Thr | Glu | His | Gln | Lys | Ile | His | Thr | Gly | Glu | Lys | Pro | Tyr | 645 | 650 | 655 |     |
| Glu | Cys | Asn | Lys | Cys | Glu | Lys | Thr | Phe | Arg | His | Lys | Ser | Asn | Phe | Leu | 660 | 665 | 670 |     |
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| Met | Val | Ser | Ser | Asn | Phe | Trp | Phe | Lys | Tyr | Pro | Lys | Thr | Cys | Ser | Lys |
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| Val | Glu | His | Phe | Val | Ser | Ile | Leu | Gly | Lys | Cys | Phe | Glu | Ser | Pro | Trp |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr | Thr | Lys | Ala | Leu | Ser | Glu | Thr | Ala | Cys | Glu | Asp | Ser | Glu | Glu | Asn |
|     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |     |
| Lys | Gln | Arg | Ile | Thr | Gly | Ala | Gln | Thr | Leu | Pro | Lys | His | Val | Ser | Thr |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ser | Ser | Asp | Glu | Gly | Ser | Pro | Ser | Ala | Ser | Thr | Pro | Met | Ile | Asn | Lys |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Thr | Gly | Phe | Lys | Phe | Ser | Ala | Glu | Lys | Pro | Val | Ile | Glu | Val | Pro | Ser |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Met | Thr | Ile | Leu | Asp | Lys | Lys | Asp | Gly | Glu | Gln | Ala | Lys | Ala | Leu | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Lys | Val | Arg | Lys | Phe | Arg | Ala | His | Val | Glu | Asp | Ser | Asp | Leu | Ile |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Tyr | Lys | Leu | Tyr | Val | Val | Gln | Thr | Val | Ile | Lys | Thr | Ala | Lys | Phe | Ile |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Phe | Ile | Leu | Cys | Tyr | Thr | Ala | Asn | Phe | Val | Asn | Ala | Ile | Ser | Phe | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| His | Val | Cys | Lys | Pro | Lys | Val | Glu | His | Leu | Ile | Gly | Tyr | Glu | Val | Phe |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
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|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Tyr | Ile | Ser | Ile | Ile | Cys | Val | Tyr | Gly | Phe | Ile | Cys | Leu | Tyr | Thr | Leu |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Phe | Trp | Leu | Phe | Arg | Ile | Pro | Leu | Lys | Glu | Tyr | Ser | Phe | Glu | Lys | Val |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Arg | Phe | Gly | Val | Phe | Leu | Ser | Glu | Val | Ser | Glu | Asn | Lys | Leu | Arg | Glu |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
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|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
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| Ser | Arg | Asn | Ala | Gln | Asp | Lys |
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| Gly | Val | Pro | Asp | Ala | Val | Phe |
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| Leu | Glu | Leu | Ile | Pro | Glu | Ala |
|     |     |     | 325 |     |     | 330 |
| Thr | Asn | Leu | Gln | Glu | Leu | His |
|     |     |     | 340 |     |     | 345 |
| Gln | Thr | Ala | Phe | Ser | Phe | Leu |
|     |     | 355 |     |     | 360 |     |
| Lys | Phe | Thr | Asp | Val | Ala | Glu |
|     | 370 |     |     |     | 375 |     |
| Asn | Leu | Arg | Glu | Leu | Tyr | Leu |
| 385 |     |     |     | 390 |     |     |
| Lys | Met | Ile | Gly | Leu | Glu | Ser |
|     |     |     | 405 |     |     |     |
| Leu | His | Val | Lys | Ser | Asn | Leu |
|     |     |     | 420 |     |     |     |
| Val | Ala | Pro | His | Leu | Thr | Lys |
|     |     | 435 |     |     |     |     |
| Leu | Leu | Val | Leu | Asn | Ser | Leu |
|     | 450 |     |     |     | 455 |     |
| Glu | Leu | Gln | Asn | Cys | Glu | Leu |
| 465 |     |     |     | 470 |     |     |
| Leu | Ser | Asn | Leu | Gln | Glu | Leu |
|     |     |     | 485 |     |     |     |
| Ile | Glu | Glu | Ile | Ile | Ser | Phe |
|     |     |     | 500 |     |     |     |
| Lys | Leu | Trp | His | Asn | Lys | Ile |
|     |     | 515 |     |     |     |     |
| Val | Lys | Asn | Leu | Glu | Ser | Leu |
|     |     | 530 |     |     |     |     |
| Leu | Pro | Val | Ala | Val | Phe | Ser |
| 545 |     |     |     | 550 |     |     |
| Ser | Tyr | Asn | Asn | Ile | Ser | Met |
|     |     |     | 565 |     |     |     |
| Asn | Leu | Gln | His | Leu | His | Ile |
|     |     |     | 580 |     |     |     |
| Lys | Gln | Leu | Phe | Lys | Cys | Ile |
|     |     |     | 595 |     |     |     |
| Asn | Cys | Ile | Thr | Ser | Leu | Pro |
|     | 610 |     |     |     | 615 |     |
| Thr | Gln | Leu | Glu | Leu | Lys | Gly |
| 625 |     |     |     |     | 630 |     |
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|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
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|     | 65  |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
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|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
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|     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |     |
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| Gly | Phe | Asp | Pro | Gly | Ala | Ser | Gly | Ser | Gln | His | Ser | Tyr | Trp | Lys | Gly |
|     |     |     | 165 |     |     |     | 170 |     |     |     |     |     |     | 175 |     |
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|     |     |     | 180 |     |     |     | 185 |     |     |     |     |     | 190 |     |     |
| Phe | Ser | Ser | Ser | Ser | Phe | Gly | Asp | Phe | Gln | Thr | Val | Phe | Asp | Gln | Pro |
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| Tyr Glu Thr Ile Asn Val Thr Ile Pro Pro Gly Thr Gln Thr Asp Gln |  |     |  |     |  |     |
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| Lys Ile Arg Met Gly Gly Lys Gly Ile Pro Arg Ile Asn Ser Tyr Gly |  |     |  |     |  |     |
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| Tyr Gly Asp His Tyr Ile His Ile Lys Ile Arg Val Pro Lys Arg Leu |  |     |  |     |  |     |
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| Asp Val Glu Gly Thr Val Asn Gly Val Thr Leu Thr Ser Ser Gly Lys |  |     |  |     |  |     |
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| Arg | Ser | His | His | Ser | Ile | Ser | Ser | Gln | Thr | Phe | Glu | His | Pro | Leu | Val |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Gln | Gln | Ile | Ser | Gly | Pro | Glu | Leu | Leu | Ser | Arg | Gly | Leu | Phe | Ala | Ala |
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| Arg His Arg Ala Pro Val Thr Phe Asp Glu Ser Gly Ser Leu Pro Phe |                     |     |     |     |
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| Leu Ser Leu Ala Gln Phe Phe Leu Leu Asn Glu Asp Asp Asp Asp Gln |                     |     |     |     |
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| His Val His Cys Ile Asp Arg Trp Leu Ser Glu Asn Ser Thr Cys Pro |                     |     |     |     |
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| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Asp | Val | Ser | Ile | Thr | Ser | Asn | Leu | Ser | Ser | Ile | Asp | Ser | Phe | Tyr | Thr |
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| Met | Val | Gln | Asp | Gln | Leu | Arg | Asn | Ser | Tyr | Gln | Ile | Gly | Tyr | Asp | Gly |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Leu | Arg | Ile | Ile | Tyr | Ala | Ser | Gly | Leu | Asp | Ser | His | Tyr | Gln | Thr |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu | Pro | His | Val | Leu | Ala | Gly | Thr | Ala | Asn | Pro | Thr | Val | Ala | Lys | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Asn | Met | Thr | Leu | Pro | Gly | Glu | Asn | Gly | Gln | Asn | Leu | Val | Glu | Trp | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Phe | Arg | Lys | Glu | Gln | Ala | Gln | Gly | Lys | Val | Asn | Val | Phe | Gly | Arg | Lys |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Leu | Arg | Val | Asn | Gly | Arg | Asn | Leu | Leu | Ser | Val | Asp | Phe | Asp | Arg | Thr |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Thr | Lys | Thr | Glu | Lys | Ile | Tyr | Asp | Asp | His | Arg | Lys | Phe | Leu | Leu | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Lys | Leu | Met | Ala | Val | Asn | Val | Thr | Tyr | Ser | Ser | Thr | Gly | Gln | Ile | Ala |
|     |     |     | 165 |     |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ser | Ile | Gln | Arg | Gly | Thr | Thr | Ser | Glu | Lys | Val | Asp | Tyr | Asp | Gly | Gln |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Arg | Ile | Val | Ser | Arg | Val | Phe | Ala | Asp | Gly | Lys | Thr | Trp | Ser | Tyr |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Thr | Tyr | Leu | Glu | Lys | Ser | Met | Val | Leu | Leu | Leu | His | Ser | Gln | Arg | Gln |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Tyr | Ile | Phe | Glu | Tyr | Asp | Met | Trp | Asp | Arg | Leu | Ser | Ala | Ile | Thr | Met |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |

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|         |     |         |         |         |         |         |     |         |         |         |     |     |     |     |          |
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| Gly 625 | His | Leu     | Phe     | Ala     | Met 630 | Glu     | Ile | Ser     | Ser     | Gly 635 | Asp | Glu | Phe | Tyr | Ile 640  |
| Ala     | Ser | Asp     | Asn     | Thr 645 | Gly     | Thr     | Pro | Leu     | Ala     | Val 650 | Phe | Ser | Ser | Asn | Gly 655  |
| Leu     | Met | Leu     | Lys 660 | Gln     | Ile     | Gln     | Tyr | Thr 665 | Ala     | Tyr     | Gly | Glu | Ile | Tyr | Phe 670  |
| Asp     | Ser | Asn 675 | Ile     | Asp     | Phe     | Gln     | Leu | Val 680 | Ile     | Gly     | Phe | His | Gly | Gly | Leu 685  |
| Tyr 690 | Asp | Pro     | Leu     | Thr     | Lys     | Leu 695 | Ile | His     | Phe     | Gly     | Glu | Arg | Asp | Tyr | Asp 700  |
| Ile 705 | Leu | Ala     | Gly     | Arg     | Trp     | Thr 710 | Thr | Pro     | Asp     | Ile 715 | Glu | Ile | Trp | Lys | Arg 720  |
| Ile     | Gly | Lys     | Asp 725 | Pro     | Ala     | Pro     | Phe | Asn     | Leu     | Tyr 730 | Met | Phe | Arg | Asn | Asn 735  |
| Asn     | Pro | Ala     | Ser 740 | Lys     | Ile     | His     | Asp | Val 745 | Lys     | Asp     | Tyr | Ile | Thr | Asp | Val 750  |
| Asn     | Ser | Trp 755 | Leu     | Val     | Thr     | Phe     | Gly | Phe 760 | His     | Leu     | His | Asn | Ala | Ile | Pro 765  |
| Gly 770 | Phe | Pro     | Val     | Pro     | Lys     | Phe 775 | Asp | Leu     | Thr     | Glu     | Pro | Ser | Tyr | Glu | Leu 780  |
| Val 785 | Lys | Ser     | Gln     | Gln     | Trp     | Asp 790 | Asp | Ile     | Pro     | Pro     | Ile | Phe | Gly | Val | Gln 800  |
| Gln     | Gln | Val     | Ala     | Arg 805 | Gln     | Ala     | Lys | Ala     | Phe 810 | Leu     | Ser | Leu | Gly | Lys | Met 815  |
| Ala     | Glu | Val     | Gln     | Val     | Ser     | Arg     | Arg | Arg     | Ala 825 | Gly     | Gly | Ala | Gln | Ser | Trp 830  |
| Leu     | Trp | Phe     | Ala     | Thr     | Val     | Lys     | Ser | Leu     | Ile 840 | Gly     | Lys | Gly | Val | Met | Leu 845  |
| Ala     | Val | Ser     | Gln     | Gly     | Arg     | Val     | Gln | Thr     | Asn     | Val     | Leu | Asn | Ile | Ala | Asn 860  |
| Glu 865 | Asp | Cys     | Ile     | Lys     | Val     | Ala     | Ala | Val     | Leu     | Asn     | Asn | Ala | Phe | Tyr | Leu 880  |
| Glu     | Asn | Leu     | His     | Phe     | Thr     | Ile     | Glu | Gly     | Lys     | Asp     | Thr | His | Tyr | Phe | Ile 895  |
| Lys     | Thr | Thr     | Thr     | Pro     | Glu     | Ser     | Asp | Leu     | Gly     | Thr     | Leu | Arg | Leu | Thr | Ser 910  |
| Gly     | Arg | Lys     | Ala     | Leu     | Glu     | Asn     | Gly | Ile     | Asn     | Val     | Thr | Val | Ser | Gln | Ser 925  |
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| Glu     | Glu | Lys     | Ala     | Arg     | Ile     | Leu     | Glu | Gln     | Ala     | Arg     | Gln | Arg | Ala | Leu | Ala 975  |
| Arg     | Ala | Trp     | Ala     | Arg     | Glu     | Gln     | Gln | Arg     | Val     | Arg     | Asp | Gly | Glu | Gly | Gly 990  |
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| Ile | Leu | Phe | Val | Tyr | Leu | Val | Ile | Arg | Ala | Leu | Arg | Leu | Trp | Arg | Thr |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ala | Lys | Leu | Gln | Val | Thr | Leu | Lys | Lys | Tyr | Ser | Val | His | Leu | Glu | Asp |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Met | Ala | Thr | Asn | Ser | Arg | Ala | Phe | Thr | Asn | Leu | Val | Arg | Lys | Ala | Leu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Leu | Ile | Gln | Glu | Thr | Glu | Val | Ile | Ser | Arg | Gly | Phe | Thr | Leu | Val |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Ser | Ala | Ala | Cys | Pro | Phe | Asn | Lys | Ala | Gly | Gln | His | Pro | Ser | Gln | His |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Ile | Gly | Leu | Arg | Lys | Ala | Val | Tyr | Arg | Thr | Leu | Arg | Ala | Asn | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Ala | Ala | Arg | Leu | Ala | Thr | Leu | Tyr | Met | Leu | Lys | Asn | Tyr | Pro | Leu |
|     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Asn | Ser | Glu | Ser | Asp | Asn | Val | Thr | Asn | Tyr | Ile | Cys | Val | Val | Pro | Phe |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Lys | Glu | Leu | Gly | Leu | Gly | Leu | Ser | Glu | Glu | Gln | Ile | Ser | Glu | Glu | Glu |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
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|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
| Phe | Gln | Leu | Trp | Val | Ala | Gln | Ser | Ser | Glu | Phe | Phe | Arg | Arg | Val | Ile |
|     |     | 180 |     |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Ile | Leu | Glu | Asp | Glu | Leu | Glu | Lys | Leu | Val | Cys | Thr | Lys | Glu | Thr | Gln |
|     | 195 |     |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
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|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Ser | Gln | Val | Asp | Lys | Leu | Leu | Arg | Arg | Asn | Thr | Asp | Lys | Lys | Gly | Lys |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Pro | Glu | Ile | Ala | Cys | Glu | Asn | Pro | His | Cys | Thr | Val | Val | Pro | Leu | Lys |
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| Gln | Pro | Thr | Leu | His | Ile | Ala | Asp | Lys | Asp | Pro | Ile | Pro | Glu | Glu | Gln |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
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| Met | Arg | Thr | Lys | Ala | Ala | Gly | Cys | Ala | Glu | Arg | Arg | Pro | Leu | Gln | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Thr | Glu | Ala | Ala | Ala | Ala | Pro | Ala | Gly | Arg | Ala | Met | Pro | Ser | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Tyr | Thr | Tyr | Val | Lys | Leu | Arg | Ser | Asp | Cys | Ser | Arg | Pro | Ser | Leu | Gln |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     |     | 45  |     |     |
| Trp | Tyr | Thr | Arg | Ala | Gln | Ser | Lys | Met | Arg | Arg | Pro | Ser | Leu | Leu | Leu |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Lys | Asp | Ile | Leu | Lys | Cys | Thr | Leu | Leu | Val | Phe | Gly | Val | Trp | Ile | Leu |
|     |     |     | 65  |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Tyr | Ile | Leu | Lys | Leu | Asn | Tyr | Thr | Thr | Glu | Glu | Cys | Asp | Met | Lys | Lys |
|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Met | His | Tyr | Val | Asp | Pro | Asp | His | Val | Lys | Arg | Ala | Gln | Lys | Tyr | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Gln | Gln | Val | Leu | Gln | Lys | Glu | Cys | Arg | Pro | Lys | Phe | Ala | Lys | Thr | Ser |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Met | Ala | Leu | Leu | Phe | Glu | His | Arg | Tyr | Ser | Val | Asp | Leu | Leu | Pro | Phe |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Gln | Lys | Ala | Pro | Lys | Asp | Ser | Glu | Ala | Glu | Ser | Lys | Tyr | Asp | Pro |
|     |     |     | 145 |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |

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Arg Arg Cys Val Val Ile Gly Ser Gly Gly Ile Leu His Gly Leu Glu  
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Leu Gly His Thr Leu Asn Gln Phe Asp Val Val Ile Arg Leu Asn Ser  
210 215 220  
Ala Pro Val Glu Gly Tyr Ser Glu His Val Gly Asn Lys Thr Thr Ile  
225 230 235 240  
Arg Met Thr Tyr Pro Glu Gly Ala Pro Leu Ser Asp Leu Glu Tyr Tyr  
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Ser Asn Asp Leu Phe Val Ala Val Leu Phe Lys Ser Val Asp Phe Asn  
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Trp Leu Gln Ala Met Val Lys Lys Glu Thr Leu Pro Phe Trp Val Arg  
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Leu Phe Phe Trp Lys Gln Val Ala Glu Lys Ile Pro Leu Gln Pro Lys  
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His Phe Arg Ile Leu Asn Pro Val Ile Ile Lys Glu Thr Ala Phe Asp  
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Ile Leu Gln Tyr Ser Glu Pro Gln Ser Arg Phe Trp Gly Arg Asp Lys  
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Arg Thr Pro Leu His Tyr Phe Asp Ser Gln Cys Met Ala Ala Met Asn  
370 375 380  
Phe Gln Thr Met His Asn Val Thr Thr Glu Thr Lys Phe Leu Leu Lys  
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50 55 60  
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Thr Glu Tyr Thr Trp Glu Val Phe Gly Tyr Cys Gln Glu Leu Glu Leu  
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Ser Leu His Tyr Leu Leu Leu Pro Tyr Leu Leu Leu Gly Val Asn Leu  
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Ala Asn Glu Leu Leu Phe Leu His Val Tyr Glu Phe Asp Glu Val Met  
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| actccctcct  | cagttttgtg | gagcctgatc  | tcttttccaa | ggaagagggtg | ggagatttta  | 720 |
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 Tyr Gln Leu Glu Gly Val Asn Trp Leu Ala Gln Arg Phe His Cys Gln  
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 Asn Gly Cys Ile Leu Gly Asp Glu Met Gly Leu Gly Lys Thr Cys Gln  
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 Thr Ile Ala Leu Phe Ile Tyr Leu Ala Gly Arg Leu Asn Asp Glu Gly

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|
| 85  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 90  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 95  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |
| Pro | Phe | Leu | Ile | Leu | Cys | Pro | Leu | Ser | Val | Leu | Ser | Asn | Trp | Lys | Glu | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | 360 | 365 | 370 | 375 | 380 | 385 | 390 | 395 | 400 | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 | 485 | 490 | 495 | 500 | 505 | 510 | 515 | 520 | 525 | 530 | 535 | 540 | 545 | 550 | 555 | 560 | 565 | 570 | 575 | 580 | 585 | 590 | 595 | 600 | 605 | 610 | 615 | 620 | 625 | 630 | 635 | 640 | 645 | 650 | 655 | 660 | 665 | 670 | 675 | 680 | 685 | 690 | 695 | 700 | 705 | 710 | 715 | 720 | 725 | 730 | 735 | 740 | 745 | 750 | 755 | 760 | 765 | 770 | 775 | 780 | 785 | 790 | 795 | 800 | 805 | 810 | 815 | 820 | 825 | 830 | 835 | 840 | 845 | 850 | 855 | 860 | 865 | 870 | 875 | 880 | 885 | 890 | 895 | 900 | 905 | 910 | 915 | 920 | 925 | 930 | 935 | 940 | 945 | 950 | 955 | 960 | 965 | 970 | 975 | 980 | 985 | 990  | 995 | 1000 |
| Glu | Met | Gln | Arg | Phe | Ala | Pro | Gly | Leu | Ser | Cys | Val | Thr | Tyr | Ala | Gly | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | 360 | 365 | 370 | 375 | 380 | 385 | 390 | 395 | 400 | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 | 485 | 490 | 495 | 500 | 505 | 510 | 515 | 520 | 525 | 530 | 535 | 540 | 545 | 550 | 555 | 560 | 565 | 570 | 575 | 580 | 585 | 590 | 595 | 600 | 605 | 610 | 615 | 620 | 625 | 630 | 635 | 640 | 645 | 650 | 655 | 660 | 665 | 670 | 675 | 680 | 685 | 690 | 695 | 700 | 705 | 710 | 715 | 720 | 725 | 730 | 735 | 740 | 745 | 750 | 755 | 760 | 765 | 770 | 775 | 780 | 785 | 790 | 795 | 800 | 805 | 810 | 815 | 820 | 825 | 830 | 835 | 840 | 845 | 850 | 855 | 860 | 865 | 870 | 875 | 880 | 885 | 890 | 895 | 900 | 905 | 910 | 915 | 920 | 925 | 930 | 935 | 940 | 945 | 950 | 955 | 960 | 965 | 970 | 975 | 980 | 985 | 990 | 995 | 1000 |     |      |
| Asp | Lys | Glu | Glu | Arg | Ala | Cys | Leu | Gln | Gln | Asp | Leu | Lys | Gln | Glu | Ser | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 | 185 | 190 | 195 | 200 | 205 | 210 | 215 | 220 | 225 | 230 | 235 | 240 | 245 | 250 | 255 | 260 | 265 | 270 | 275 | 280 | 285 | 290 | 295 | 300 | 305 | 310 | 315 | 320 | 325 | 330 | 335 | 340 | 345 | 350 | 355 | 360 | 365 | 370 | 375 | 380 | 385 | 390 | 395 | 400 | 405 | 410 | 415 | 420 | 425 | 430 | 435 | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 | 485 | 490 | 495 | 500 | 505 | 510 | 515 | 520 | 525 | 530 | 535 | 540 | 545 | 550 | 555 | 560 | 565 | 570 | 575 | 580 | 585 | 590 | 595 | 600 | 605 | 610 | 615 | 620 | 625 | 630 | 635 | 640 | 645 | 650 | 655 | 660 | 665 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |

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| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     | 480     |
| Arg | Lys | Ala | Ala | Ser | Lys | Leu | Gln | Leu | Thr | Asn | Met | Ile | Ile | Glu Gly |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495     |
| Gly | His | Phe | Thr | Leu | Gly | Ala | Gln | Lys | Pro | Ala | Ala | Asp | Ala | Asp Leu |
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| Gly | Lys | Asp | Tyr | Ser | Lys | Glu | Pro | Ser | Lys | Glu | Asp | Arg | Lys | Ser Phe |
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| Val | Glu | Gly | Ser | Thr | Lys | Arg | Lys | Arg | Val | Leu | Ser | Pro | Glu | Glu Leu |
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| Leu | Ile | Glu | Glu | Lys | Lys | Arg | Gln | Lys | Glu | Glu | Ala | Glu | His | Lys Lys |
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| Lys | Val | Ala | Trp | Trp | Glu | Ser | Asn | Asn | Tyr | Gln | Ser | Phe | Cys | Leu Pro |
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| Ser | Glu | Glu | Ser | Glu | Pro | Glu | Asp | Leu | Glu | Asn | Gly | Glu | Glu | Ser Ser |
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| Ser | Gly | Asp | Val | Thr | His | Pro | Gln | Ala | Gly | Ala | Glu | Asp | Ala | Leu Ile |
|     |     |     |     | 725 |     |     |     |     | 730 |     |     |     |     | 735     |
| Val | His | Cys | Val | Asp | Asp | Ser | Gly | His | Trp | Gly | Arg | Gly | Gly | Leu Phe |
|     |     |     | 740 |     |     |     | 745 |     |     |     |     |     | 750 |         |
| Thr | Ala | Leu | Glu | Lys | Arg | Ser | Ala | Glu | Pro | Arg | Lys | Ile | Tyr | Glu Leu |
|     | 755 |     |     |     |     |     | 760 |     |     |     |     | 765 |     |         |
| Ala | Gly | Lys | Met | Lys | Asp | Leu | Ser | Leu | Gly | Gly | Val | Leu | Leu | Phe Pro |
|     | 770 |     |     |     |     | 775 |     |     |     |     | 780 |     |     |         |
| Val | Asp | Asp | Lys | Glu | Ser | Arg | Asn | Lys | Gly | Gln | Asp | Leu | Leu | Ala Leu |
| 785 |     |     |     |     | 790 |     |     |     |     | 795 |     |     |     | 800     |
| Ile | Val | Ala | Gln | His | Arg | Asp | Arg | Ser | Asn | Val | Leu | Ser | Gly | Ile Lys |
|     |     |     |     | 805 |     |     |     |     | 810 |     |     |     |     | 815     |
| Met | Ala | Ala | Leu | Glu | Glu | Gly | Leu | Lys | Lys | Ile | Phe | Leu | Ala |         |
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| Met | Arg | Thr | Leu | Glu | Asp | Ser | Ser | Gly | Thr | Val | Leu | His | Arg | Leu | Ile |
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| Ala | Ile | Gln | Gln | Gln | Ala | Leu | Arg | Gly | Gly | Ala | Gly | Thr | Gly | Gly | Thr |
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| Gly | Gly | Glu | Asn | His | Leu | Ala | Glu | Asn | Thr | Leu | Tyr | Arg | Leu | Cys | Pro |
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| His | Met | Ser | Ser | Ser | His | Ser | Phe | Pro | Gln | Leu | Ala | Arg | Asn | Gln | Gln |
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| Gly | Pro | Pro | Leu | Arg | Gly | Pro | Pro | Ala | Glu | Gly | Pro | Glu | Ser | Arg | Gly |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Pro | Pro | Pro | Gln | Tyr | Pro | His | Val | Val | Leu | Ala | His | Glu | Thr | Thr | Thr |
|     | 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Ala | Val | Thr | Asp | Pro | Arg | Tyr | Arg | Ala | Arg | Gly | Ser | Pro | His | Phe | Gln |
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| Gln | Gln | Gln | Gln | Gln | Tyr | Gln | Tyr | Leu | Gln | Gln | Ser | Gln | Glu | His | Pro |
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| Ser | Pro | Pro | Ala | Val | Glu | Gly | Pro | Val | Ser | Ala | Gln | Ala | Ser | Ser | Ala |
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| Thr | Ser | Gly | Ser | Ala | His | Leu | Ala | Gln | Met | Glu | Ala | Val | Leu | Arg | Glu |
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| Asn | Ala | Arg | Leu | Gln | Arg | Asp | Asn | Glu | Arg | Leu | Gln | Arg | Glu | Leu | Glu |
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| Gln | Arg | Leu | Ser | Glu | Ala | His | Glu | Ser | Leu | Thr | Arg | Ala | Ser | Ser | Lys |
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|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
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|     | 435 |     |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
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|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
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| Gln | Arg | Asp | Thr | Thr | Leu | Ile | Arg | His | Ser | Pro | Gln | Pro | Ser | Pro | Ser |
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| Ser | Ser | Phe | Asn | Glu | Gly | Leu | Leu | Thr | Gly | Gly | His | Arg | His | Gln | Glu |
|     | 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |
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| Ala | Val | Ile | Lys | Val | Leu | Gln | Gln | Arg | Ser | Arg | Arg | Asp | Pro | Gly | Lys |
|     |     |     |     | 645 |     |     |     |     | 650 |     |     |     |     | 655 |     |
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|     |     |     | 660 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |
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| Phe | Met | Pro | Ile | Leu | Met | Glu | Lys | Glu | Glu | Glu | Gly | Met | Leu | Ser | Pro |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ile | Leu | Ala | His | Gly | Gly | Val | Arg | Phe | Met | Trp | Ile | Lys | His | Asn | Asn |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Tyr | Leu | Val | Ala | Thr | Ser | Lys | Lys | Asn | Ala | Cys | Val | Ser | Leu | Val |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Phe | Ser | Phe | Leu | Tyr | Lys | Val | Val | Gln | Val | Phe | Ser | Glu | Tyr | Phe | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Glu | Leu | Glu | Glu | Glu | Ser | Ile | Arg | Asp | Asn | Phe | Val | Ile | Ile | Tyr | Glu |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Leu | Leu | Asp | Glu | Leu | Met | Asp | Phe | Gly | Tyr | Pro | Gln | Thr | Thr | Asp | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Lys | Ile | Leu | Gln | Glu | Tyr | Ile | Thr | Gln | Glu | Gly | His | Lys | Leu | Glu | Thr |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Glu | Ser | Val | Asn | Leu | Leu | Val | Ser | Ala | Asn | Gly | Asn | Val | Leu | Arg | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Glu | Ile | Val | Gly | Ser | Ile | Lys | Met | Arg | Val | Phe | Leu | Ser | Gly | Met | Pro |
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| Glu | Leu | Arg | Leu | Gly | Leu | Asn | Asp | Lys | Val | Leu | Phe | Asp | Asn | Thr | Gly |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Arg | Gly | Lys | Ser | Lys | Ser | Val | Glu | Leu | Glu | Asp | Val | Lys | Phe | His | Gln |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
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|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Val | Lys | Pro | Ser | Ile | Trp | Ile | Glu | Ser | Val | Ile | Glu | Lys | His | Ser | His |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Tyr | Pro | Ser | Asn | Thr | Thr | Ser | Ser | Thr | Ser | Asn | Ser | Gly | Asn | Glu |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Thr | Ser | Gly | Ser | Ser | Thr | Ile | Gly | Glu | Thr | Ser | Asn | Arg | Ser | Arg | Asp |
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| Arg | Asp | Arg | Tyr | Arg | Arg | Arg | Asn | Ser | Arg | Ser | Arg | Ser | Pro | Gly | Arg |
|     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Gln | Cys | Arg | His | Arg | Ser | Arg | Ser | Trp | Asp | Arg | Arg | His | Gly | Ser | Glu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Ser | Arg | Ser | Arg | Asp | His | Arg | Arg | Glu | Asp | Arg | Val | His | Tyr | Arg | Ser |
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|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
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|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
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|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Val | Arg | Glu | Val | Lys | Val | Glu | Gln | Asn | Ser | Glu | Pro | Cys | Ala | Gly | Ser |
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| Ser | Ser | Glu | Ser | Asp | Leu | Gln | Thr | Val | Phe | Lys | Asn | Glu | Ser | Leu | Asn |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
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|     |     | 130 |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Leu | Ile | Lys | Lys | Asp | Thr | Ala | Thr | Tyr | Trp | Pro | Leu | Asn | Trp | Arg | Ser |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | Leu | Phe | Leu | Thr | Asp | Glu | Tyr | Asp | Thr | Val | Leu | Ala | Tyr | Glu | Asn |
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|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Tyr | Asn | Asp | Leu | Lys | Thr | Glu | Leu | Lys | Asp | Tyr | Leu | Lys | Arg | Phe | Ala |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Asp | Glu | Gly | Thr | Val | Val | Lys | Arg | Glu | Asp | Ile | Gln | Gln | Phe | Phe | Glu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Glu | Phe | Gln | Ser | Lys | Lys | Arg | Arg | Arg | Val | Asp | Gly | Met | Gln | Tyr | Tyr |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
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gtattaattc caaagtatgg tttagaaggg acagtctttt ttgaagaaaa ggacaaacca 360  
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      85              90              95
Gln His Gln Lys Ile Arg Met Ser Leu Val Glu Pro Gln Ile Pro Gly
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<212> PRT

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Ser Ala Ala Glu Lys Lys Gly Gly Thr Leu His Ala Gly Leu Ile Val  
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100 105 110  
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Arg Leu Leu Ser Ser Phe Asp Leu Arg Ser Arg Leu Cys Arg Ile Ile

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     |     |     | 20  |     |     |     | 25  |     |     |     | 30  |     |     |     |     |
| Ala | Glu | Ala | Pro | Gln | Glu | Leu | Ala | Leu | Pro | Pro | Glu | Glu | Ala | Glu | Met |
|     |     |     | 35  |     |     |     | 40  |     |     |     | 45  |     |     |     |     |
| Leu | Ser | Thr | Glu | Ala | Leu | Arg | Leu | Trp | Ala | Val | Ala | Ala | Ser | Tyr | Gly |
|     |     |     | 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |
| Gln | Gly | Gly | Tyr | Leu | Tyr | Arg | Glu | Leu | Tyr | Pro | Val | Leu | Met | Arg | Ala |
|     |     |     | 65  |     |     |     | 70  |     |     |     | 75  |     |     |     |     |
| Leu | Gln | Val | Val | Pro | Arg | Glu | Leu | Ser | Thr | His | Pro | Pro | Gln | Pro | Leu |
|     |     |     | 85  |     |     |     | 90  |     |     |     | 95  |     |     |     |     |
| Ser | Met | Gln | Arg | Ile | Ala | Ser | Leu | Leu | Thr | Leu | Leu | Thr | Gln | Leu | Thr |
|     |     |     | 100 |     |     |     | 105 |     |     |     | 110 |     |     |     |     |
| Leu | Ala | Ala | Gly | Ser | Thr | Pro | Ala | Glu | Thr | Ile | Ser | Asp | Ser | Ala | Glu |
|     |     |     | 115 |     |     |     | 120 |     |     |     | 125 |     |     |     |     |
| Ala | Ser | Leu | Ser | Ala | Thr | Pro | Ser | Leu | Val | Ala | Trp | Thr | Gln | Val | Ser |
|     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |     |
| Gly | Leu | Gln | Pro | Leu | Val | Glu | Pro | Cys | Leu | Arg | Gln | Thr | Leu | Lys | Leu |
|     |     |     | 145 |     |     |     | 150 |     |     |     | 155 |     |     |     |     |
| Leu | Ser | Arg | Pro | Glu | Met | Trp | Arg | Ala | Val | Gly | Pro | Val | Pro | Val | Ala |
|     |     |     | 165 |     |     |     | 170 |     |     |     | 175 |     |     |     |     |
| Cys | Leu | Leu | Phe | Leu | Gly | Ala | Tyr | Tyr | Gln | Ala | Trp | Ser | Gln | Gln | Pro |
|     |     |     | 180 |     |     |     | 185 |     |     |     | 190 |     |     |     |     |
| Ser | Ser | Cys | Pro | Glu | Asp | Trp | Leu | Gln | Asp | Met | Glu | Arg | Leu | Ser | Glu |
|     |     |     | 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |     |
| Glu | Leu | Leu | Leu | Pro | Leu | Leu | Ser | Gln | Pro | Thr | Leu | Gly | Ser | Leu | Trp |
|     |     |     | 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |     |
| Asp | Ser | Leu | Arg | His | Cys | Ser | Leu | Leu | Cys | Asn | Pro | Leu | Ser | Cys | Val |
|     |     |     | 225 |     |     |     | 230 |     |     |     | 235 |     |     |     |     |
| Pro | Ala | Leu | Glu | Ala | Pro | Pro | Ser | Leu | Val | Ser | Leu | Gly | Cys | Ser | Gly |
|     |     |     | 245 |     |     |     | 250 |     |     |     | 255 |     |     |     |     |
| Gly | Cys | Pro | Arg | Leu | Ser | Leu | Ala | Gly | Ser | Ala | Ser | Pro | Phe | Pro | Phe |
|     |     |     | 260 |     |     |     | 265 |     |     |     | 270 |     |     |     |     |
| Leu | Thr | Ala | Leu | Leu | Ser | Leu | Leu | Asn | Thr | Leu | Ala | Gln | Ile | His | Lys |
|     |     |     | 275 |     |     |     | 280 |     |     |     | 285 |     |     |     |     |
| Gly | Leu | Cys | Gly | Gln | Leu | Ala | Ala | Ile | Leu | Ala | Ala | Pro | Gly | Leu | Gln |
|     |     |     | 290 |     |     |     | 295 |     |     |     | 300 |     |     |     |     |
| Asn | Tyr | Phe | Leu | Gln | Cys | Val | Ala | Pro | Gly | Ala | Ala | Pro | His | Leu | Thr |
|     |     |     | 305 |     |     |     | 310 |     |     |     | 315 |     |     |     |     |
| Pro | Phe | Ser | Ala | Trp | Ala | Leu | Arg | His | Glu | Tyr | His | Leu | Gln | Tyr | Leu |
|     |     |     | 325 |     |     |     | 330 |     |     |     | 335 |     |     |     |     |
| Ala | Leu | Ala | Leu | Ala | Gln | Lys | Ala | Ala | Ala | Leu | Gln | Pro | Leu | Pro | Ala |
|     |     |     | 340 |     |     |     | 345 |     |     |     | 350 |     |     |     |     |
| Thr | His | Ala | Ala | Leu | Tyr | His | Gly | Met | Ala | Leu | Ala | Leu | Leu | Ser | Arg |
|     |     |     | 355 |     |     |     | 360 |     |     |     | 365 |     |     |     |     |
| Leu | Leu | Pro | Gly | Ser | Glu | Tyr | Leu | Thr | His | Glu | Leu | Leu | Leu | Ser | Cys |
|     |     |     | 370 |     |     |     | 375 |     |     |     | 380 |     |     |     |     |
| Val | Phe | Arg | Leu | Glu | Phe | Leu | Pro | Glu | Arg | Thr | Ser | Gly | Gly | Pro | Glu |
|     |     |     | 385 |     |     |     | 390 |     |     |     | 395 |     |     |     |     |
| Ala | Ala | Asp | Phe | Ser | Asp | Gln | Leu | Ser | Leu | Gly | Ser | Ser | Arg | Val | Pro |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     | 415 |     |     |  |  |
| Arg | Cys | Gly | Gln | Gly | Thr | Leu | Leu | Ala | Gln | Ala | Cys | Gln | Asp | Leu | Pro |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |
| Ser | Ile | Arg | Asn | Cys | Tyr | Leu | Thr | His | Cys | Ser | Pro | Ala | Arg | Ala | Ser |  |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |
| Leu | Leu | Ala | Ser | Gln | Ala | Leu | His | Arg | Gly | Glu | Leu | Gln | Arg | Val | Pro |  |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |  |
| Thr | Leu | Leu | Leu | Pro | Met | Pro | Thr | Glu | Pro | Leu | Leu | Pro | Thr | Asp | Trp |  |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |  |
| Pro | Phe | Leu | Pro | Leu | Ile | Arg | Leu | Tyr | His | Arg | Ala | Ser | Asp | Thr | Pro |  |  |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |     |  |  |
| Ser | Gly | Leu | Ser | Pro | Thr | Asp | Thr | Met | Gly | Thr | Ala | Met | Arg | Val | Leu |  |  |
|     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |     |  |  |
| Gln | Trp | Val | Leu | Val | Leu | Glu | Ser | Trp | Arg | Pro | Gln | Ala | Leu | Trp | Ala |  |  |
|     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |     |  |  |
| Val | Pro | Pro | Ala | Ala | Arg | Leu | Ala | Arg | Leu | Met | Cys | Val | Phe | Leu | Val |  |  |
|     | 530 |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |     |  |  |
| Asp | Ser | Glu | Leu | Phe | Arg | Glu | Ser | Pro | Val | Gln | His | Leu | Val | Ala | Ala |  |  |
| 545 |     |     |     | 550 |     |     |     | 555 |     |     |     |     |     |     | 560 |  |  |
| Leu | Leu | Ala | Gln | Leu | Cys | Gln | Pro | Gln | Val | Leu | Pro | Asn | Leu | Asn | Leu |  |  |
|     |     |     | 565 |     |     |     | 570 |     |     |     |     | 575 |     |     |     |  |  |
| Asp | Cys | Arg | Leu | Pro | Gly | Leu | Thr | Ser | Phe | Pro | Asp | Leu | Tyr | Ala | Asn |  |  |
|     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |     |  |  |
| Phe | Leu | Asp | His | Phe | Glu | Ala | Val | Ser | Phe | Gly | Asp | His | Leu | Phe | Gly |  |  |
|     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |     |  |  |
| Ala | Leu | Val | Leu | Leu | Pro | Leu | Gln | Arg | Arg | Phe | Ser | Val | Thr | Leu | Arg |  |  |
|     | 610 |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |     |  |  |
| Leu | Ala | Leu | Phe | Gly | Glu | His | Val | Gly | Ala | Leu | Arg | Ala | Leu | Ser | Leu |  |  |
| 625 |     |     |     | 630 |     |     |     | 635 |     |     |     |     |     |     | 640 |  |  |
| Pro | Leu | Thr | Gln | Leu | Pro | Val | Ser | Leu | Glu | Cys | Tyr | Thr | Val | Pro | Pro |  |  |
|     |     |     | 645 |     |     |     |     | 650 |     |     |     |     |     | 655 |     |  |  |
| Glu | Asp | Asn | Leu | Ala | Leu | Leu | Gln | Leu | Tyr | Phe | Arg | Thr | Leu | Val | Thr |  |  |
|     |     | 660 |     |     |     |     | 665 |     |     |     |     |     | 670 |     |     |  |  |
| Gly | Ala | Leu | Arg | Pro | Arg | Trp | Cys | Pro | Val | Leu | Tyr | Ala | Val | Ala | Val |  |  |
|     | 675 |     |     |     | 680 |     |     |     |     |     | 685 |     |     |     |     |  |  |
| Ala | His | Val | Asn | Ser | Phe | Ile | Phe | Ser | Gln | Asp | Pro | Gln | Ser | Ser | Asp |  |  |
|     | 690 |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |     |  |  |
| Glu | Val | Lys | Ala | Ala | Arg | Arg | Ser | Met | Leu | Gln | Lys | Thr | Trp | Leu | Leu |  |  |
| 705 |     |     |     | 710 |     |     |     | 715 |     |     |     |     |     |     | 720 |  |  |
| Ala | Asp | Glu | Gly | Leu | Arg | Gln | His | Leu | Leu | His | Tyr | Lys | Leu | Pro | Asn |  |  |
|     |     |     | 725 |     |     |     |     | 730 |     |     |     |     |     | 735 |     |  |  |
| Ser | Thr | Leu | Pro | Glu | Gly | Phe | Glu | Leu | Tyr | Ser | Gln | Leu | Pro | Pro | Leu |  |  |
|     |     | 740 |     |     |     |     | 745 |     |     |     |     |     | 750 |     |     |  |  |
| Arg | Gln | His | Tyr | Leu | Gln | Arg | Leu | Thr | Ser | Thr | Val | Leu | Gln | Asn | Gly |  |  |
|     | 755 |     |     |     |     | 760 |     |     |     |     |     | 765 |     |     |     |  |  |
| Val | Ser | Glu | Thr |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|     | 770 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |

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ccagacctac ggagggagct ggaaattcct gacgttcatt gatctgggta tccaggctgt 180  
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Gln Thr Tyr Gly Gly Ser Trp Lys Phe Leu Thr Phe Ile Asp Leu Val  
35 40 45  
Ile Gln Ala Val Phe Phe Gly Ile Cys Val Leu Thr Asp Leu Ser Ser  
50 55 60

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Leu Leu Thr Arg Gly Ser Gly Asn Gln Glu Gln Glu Arg Gln Leu Lys  
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 Val Gly Val Phe Val Val Ala Val Phe Trp Ile Ile Tyr Ala Tyr Asp  
 100 105 110  
 Arg Glu Met Ile Tyr Pro Lys Leu Leu Asp Asn Phe Ile Pro Gly Trp  
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 Leu Asn His Gly Met His Thr Thr Val Leu Pro Phe Ile Leu Ile Glu  
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 145 150 155 160  
 Ala Ile Cys Thr Phe Ser Val Gly Tyr Ile Leu Trp Val Cys Trp Val  
 165 170 175  
 His His Val Thr Gly Met Trp Val Tyr Pro Phe Leu Glu His Phe Gly  
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 Pro Gly Ala Arg Ile Ile Phe Phe Gly Ser Thr Thr Ile Leu Met Asn  
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 Phe Leu Tyr Leu Leu Gly Glu Val Leu Asn Asn Tyr Ile Trp Asp Thr  
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 <213> Homo sapiens

<400> 11464

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| Met | Ala | Val | Pro | Gly | Val | Gly | Leu | Leu | Thr | Arg | Leu | Asn | Leu | Cys | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg | Arg | Arg | Thr | Arg | Val | Gln | Arg | Pro | Ile | Val | Arg | Leu | Leu | Ser | Cys |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Gly | Thr | Val | Ala | Lys | Asp | Leu | Arg | Arg | Asp | Glu | Gln | Pro | Ser | Gly |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Val | Glu | Thr | Gly | Phe | Glu | Asp | Lys | Ile | Pro | Lys | Arg | Arg | Phe | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Glu | Met | Gln | Asn | Glu | Arg | Arg | Glu | Gln | Ala | Gln | Arg | Thr | Val | Leu | Ile |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| His | Cys | Pro | Glu | Lys | Ile | Ser | Glu | Asn | Lys | Phe | Leu | Lys | Tyr | Leu | Ser |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Gln | Phe | Gly | Pro | Ile | Asn | Asn | His | Phe | Phe | Tyr | Glu | Ser | Phe | Gly | Leu |
|     |     |     | 100 |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Tyr | Ala | Val | Val | Glu | Phe | Cys | Gln | Lys | Glu | Ser | Ile | Gly | Ser | Leu | Gln |
|     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |     |
| Asn | Gly | Thr | His | Thr | Pro | Ser | Thr | Ala | Met | Glu | Thr | Ala | Ile | Pro | Phe |

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|   |     |     |     |     |
|---|-----|-----|-----|-----|
| 130   |     | 135 |     | 140 |
| Arg Ser Arg Phe Phe Asn Leu Lys Leu Lys Asn Gln Thr Ser Glu Arg |     |     |     |     |
| 145   |     | 150 |     | 155 |
| Ser Arg Val Arg Ser Ser Asn Gln Leu Pro Arg Ser Asn Lys Gln Leu |     |     |     | 160 |
|   | 165 |     | 170 | 175 |
| Phe Glu Leu Leu Cys Tyr Ala Glu Ser Ile Asp Asp Gln Leu Asn Thr |     |     |     |     |
|   | 180 |     | 185 | 190 |
| Leu Leu Lys Glu Phe Gln Leu Thr Glu Glu Asn Thr Lys Leu Arg Tyr |     |     |     |     |
|   | 195 |     | 200 | 205 |
| Leu Thr Cys Ser Leu Ile Glu Asp Met Ala Ala Ala Tyr Phe Pro Asp |     |     |     |     |
|   | 210 |     | 215 | 220 |
| Cys Ile Val Arg Pro Phe Gly Ser Ser Val Asn Thr Phe Gly Lys Leu |     |     |     |     |
| 225   |     | 230 |     | 235 |
| Gly Cys Asp Leu Asp Met Phe Leu Asp Leu Asp Glu Thr Arg Asn Leu |     |     |     | 240 |
|   | 245 |     | 250 | 255 |
| Ser Ala His Lys Ile Ser Gly Asn Phe Leu Met Glu Phe Gln Val Lys |     |     |     |     |
|   | 260 |     | 265 | 270 |
| Asn Val Pro Ser Glu Arg Ile Ala Thr Gln Lys Ile Leu Ser Val Leu |     |     |     |     |
|   | 275 |     | 280 | 285 |
| Gly Glu Cys Leu Asp His Phe Gly Pro Gly Cys Val Gly Val Gln Lys |     |     |     |     |
|   | 290 |     | 295 | 300 |
| Ile Leu Asn Ala Arg Cys Pro Leu Val Arg Phe Ser His Gln Ala Ser |     |     |     |     |
| 305   |     | 310 |     | 315 |
| Gly Phe Gln Cys Asp Leu Thr Thr Asn Asn Arg Ile Ala Leu Thr Ser |     |     |     |     |
|   | 325 |     | 330 | 335 |
| Ser Glu Leu Leu Tyr Ile Tyr Gly Ala Leu Asp Ser Arg Val Arg Ala |     |     |     |     |
|   | 340 |     | 345 | 350 |
| Leu Val Phe Ser Val Arg Cys Trp Ala Arg Ala His Ser Leu Thr Ser |     |     |     |     |
|   | 355 |     | 360 | 365 |
| Ser Ile Pro Gly Ala Trp Ile Thr Asn Phe Ser Leu Thr Met Met Val |     |     |     |     |
|   | 370 |     | 375 | 380 |
| Ile Phe Phe Leu Gln Arg Arg Ser Pro Pro Ile Leu Pro Thr Leu Asp |     |     |     |     |
| 385   |     | 390 |     | 395 |
| Ser Leu Lys Thr Leu Ala Asp Ala Glu Asp Lys Cys Val Ile Glu Gly |     |     |     |     |
|   | 405 |     | 410 | 415 |
| Asn Asn Cys Thr Phe Val Arg Asp Leu Ser Arg Ile Lys Pro Ser Gln |     |     |     |     |
|   | 420 |     | 425 | 430 |
| Asn Thr Glu Thr Leu Glu Leu Leu Leu Lys Glu Phe Phe Glu Tyr Phe |     |     |     |     |
|   | 435 |     | 440 | 445 |
| Gly Asn Phe Ala Phe Asp Lys Asn Ser Ile Asn Ile Arg Gln Gly Arg |     |     |     |     |
|   | 450 |     | 455 | 460 |
| Glu Gln Asn Lys Pro Asp Ser Ser Pro Leu Tyr Ile Gln Asn Pro Phe |     |     |     |     |
| 465   |     | 470 |     | 475 |
| Glu Thr Ser Leu Asn Ile Ser Lys Asn Val Ser Gln Ser Gln Leu Gln |     |     |     |     |
|   | 485 |     | 490 | 495 |
| Lys Phe Val Asp Leu Ala Arg Glu Ser Ala Trp Ile Leu Gln Gln Glu |     |     |     |     |
|   | 500 |     | 505 | 510 |
| Asp Thr Asp Arg Pro Ser Ile Ser Ser Asn Arg Pro Trp Gly Leu Val |     |     |     |     |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 515 |     | 520 |     | 525 |     |     |     |     |     |     |     |     |     |     |     |
| Ser | Leu | Leu | Leu | Pro | Ser | Ala | Pro | Asn | Arg | Lys | Ser | Phe | Thr | Lys | Lys |
| 530 |     | 535 |     | 540 |     |     |     |     |     |     |     |     |     |     |     |
| Lys | Ser | Asn | Lys | Phe | Ala | Ile | Glu | Thr | Val | Lys | Asn | Leu | Leu | Glu | Ser |
| 545 |     | 550 |     | 555 |     |     |     |     |     |     |     |     |     |     | 560 |
| Leu | Lys | Gly | Asn | Arg | Thr | Glu | Asn | Phe | Thr | Lys | Thr | Ser | Gly | Lys | Arg |
|     |     | 565 |     | 570 |     |     |     |     |     |     |     |     |     | 575 |     |
| Thr | Ile | Ser | Thr | Gln | Thr |     |     |     |     |     |     |     |     |     |     |
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 <213> Homo sapiens

<400> 11466

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| Met | Ser | Asn | Ala | Glu | Asp | Leu | Asn | Arg | Leu | Thr | Ala | Cys | Ser | Leu | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu | Leu | Gly | His | Ile | Phe | Tyr | Val | Leu | Gly | Asn | His | Arg | Glu | Ser | Asn |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Met | Val | Val | Pro | Ala | Met | Gln | Leu | Ala | Ser | Lys | Ile | Pro | Asp | Met |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Val | Gln | Leu | Trp | Ser | Ser | Ala | Leu | Leu | Arg | Asp | Leu | Asn | Lys | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
| Cys | Gly | Asn | Ala | Met | Asp | Ala | His | Glu | Ala | Ala | Gln | Met | His | Gln | Asn |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Phe | Ser | Gln | Gln | Leu | Leu | Gln | Asp | His | Ile | Glu | Ala | Cys | Ser | Leu | Pro |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Glu | His | Asn | Leu | Ile | Thr | Trp | Thr | Asp | Gly | Pro | Pro | Pro | Val | Gln | Phe |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |     |
| Gln | Ala | Gln | Asn | Gly | Pro | Asn | Thr | Ser | Leu | Ala | Ser | Leu | Leu |     |     |
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<213> Homo sapiens

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<222> (278).. (1255)

<400> 11467

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| Gly | Gly | Ala | Gly | Met | Leu | Tyr | Val | Arg | Trp | Arg | Ile | Met | Gly | Thr | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Pro | Ala | Phe | Thr | Glu | Val | Asp | Asn | Pro | Ala | Ser | Phe | Ala | Asp | Ser |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Met | Leu | Val | Arg | Ala | Val | Asn | Tyr | Asn | Tyr | Tyr | Tyr | Ser | Leu | Asn | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Trp | Leu | Leu | Leu | Cys | Pro | Trp | Trp | Leu | Cys | Phe | Asp | Trp | Ser | Met | Gly |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Cys | Ile | Pro | Leu | Ile | Lys | Ser | Ile | Ser | Asp | Trp | Arg | Val | Ile | Ala | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Ala | Leu | Trp | Phe | Cys | Leu | Ile | Gly | Leu | Ile | Cys | Gln | Ala | Leu | Cys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Glu | Asp | Gly | His | Lys | Arg | Arg | Ile | Leu | Thr | Leu | Gly | Leu | Gly | Phe |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Val | Ile | Pro | Phe | Leu | Pro | Ala | Ser | Asn | Leu | Phe | Phe | Arg | Val | Gly |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Phe | Val | Val | Ala | Glu | Arg | Val | Leu | Tyr | Leu | Pro | Ser | Val | Gly | Tyr | Cys |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Val | Leu | Leu | Thr | Phe | Gly | Phe | Gly | Ala | Leu | Ser | Lys | His | Thr | Lys | Lys |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Lys | Lys | Pro | Ile | Ala | Ala | Val | Val | Leu | Gly | Ile | Leu | Phe | Ile | Asn | Thr |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Arg | Cys | Val | Leu | Arg | Ser | Gly | Glu | Trp | Arg | Ser | Glu | Glu | Gln | Leu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Phe | Arg | Ser | Ala | Leu | Ser | Val | Cys | Pro | Leu | Asn | Ala | Lys | Val | His | Tyr |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Asn | Ile | Gly | Lys | Asn | Leu | Ala | Asp | Lys | Gly | Asn | Gln | Thr | Ala | Ala | Ile |
|     | 225 |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Asn | Tyr | Arg | Glu | Ala | Val | Arg | Leu | Asn | Pro | Lys | Tyr | Val | His | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Met | Asn | Asn | Leu | Gly | Asn | Ile | Leu | Lys | Glu | Arg | Asn | Glu | Leu | Gln | Glu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ala | Glu | Glu | Leu | Leu | Ser | Leu | Ala | Val | Gln | Ile | Gln | Pro | Asp | Phe | Ala |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     |     |
| Ala | Ala | Trp | Met | Asn | Leu | Gly | Ile | Val | Gln | Asn | Ser | Leu | Lys | Arg | Phe |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Glu | Ala | Ala | Glu | Gln | Ser | Tyr | Arg | Thr | Ala | Ile | Lys | His | Arg | Arg | Lys |
|     | 305 |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
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| ctacaaaatta | tgatttatgt  | cctgggtgtca | aatgaagata | agaataagat  | caaagaaaag  | 960  |
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|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |
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|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
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| Pro | His | Asp | Leu | Val | Ser | Gln | Gly | Tyr | Ser | Tyr | Leu | Pro | Val | Gln | Leu |
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| Gly | Val | Thr | His | Ala | Asn | Ser | Tyr | Tyr | Lys | Asn | Gly | Trp | Ile | Val | Met |
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| Ile | Ala | Ile | Gly | Trp | Ala | Arg | Gly | Ala | Gly | Gly | Thr | Ile | Ile | Thr | Asn |
|     | 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |     |
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|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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-4960/13211-

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|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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| Phe | Thr | Ile | Ala | Ile | Phe | Leu | Lys | Tyr | Ser | Asn | Asp | Pro | Val | Val | Ala |
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|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
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Ala Cys Leu Gln Gly Pro Gly Val Ala Pro Val Leu Arg Cys Ala Pro
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 <213> Homo sapiens

<400> 11488

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| Met | Thr | Arg | Met | Leu | Gln | Arg | Met | Asp | Val | Leu | Ala | Lys | Lys | Ala | Thr |
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| Glu | Met | Gly | Val | Arg | Leu | Met | Val | Asp | Ala | Glu | Gln | Thr | Tyr | Phe | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Pro | Ala | Ile | Ser | Arg | Leu | Thr | Leu | Glu | Met | Gln | Arg | Lys | Phe | Asn | Val |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Glu | Lys | Pro | Leu | Ile | Phe | Asn | Thr | Tyr | Gln | Cys | Tyr | Leu | Lys | Asp | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Tyr | Asp | Asn | Val | Thr | Leu | Asp | Val | Glu | Leu | Ala | Arg | Arg | Glu | Gly | Trp |
|     | 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Cys | Phe | Gly | Ala | Lys | Leu | Val | Arg | Gly | Ala | Tyr | Leu | Ala | Gln | Glu | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Arg | Ala | Ala | Glu | Ile | Gly | Tyr | Glu | Asp | Pro | Ile | Asn | Pro | Thr | Tyr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Ala | Thr | Asn | Ala | Met | Tyr | His | Arg | Cys | Leu | Asp | Tyr | Val | Leu | Glu |
|     |     | 115 |     |     |     | 120 |     |     |     |     |     | 125 |     |     |     |
| Glu | Leu | Lys | His | Asn | Ala | Lys | Ala | Lys | Val | Met | Val | Ala | Ser | His | Asn |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

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 <213> Homo sapiens

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| Phe | Pro | Gln | Glu | Val | Lys | Asp | Leu | Leu | Ser | Cys | Asn | His | Thr | Val | Leu |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Pro | Asp | Leu | Arg | Met | Thr | Phe | Cys | Lys | Ala | Leu | Ile | Leu | Leu | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Asn | Lys | Asn | Leu | Ile | Asn | Pro | Ser | Ser | Leu | Leu | Glu | Leu | Phe | Phe | Glu |
|     |     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Phe | Arg | Cys | His | Asp | Lys | Leu | Leu | Arg | Lys | Thr | Leu | Tyr | Thr | His |
|     |     | 65  |     |     | 70  |     |     |     | 75  |     |     |     |     |     | 80  |
| Ile | Val | Thr | Asp | Ile | Lys | Asn | Ile | Asn | Ala | Lys | His | Lys | Asn | Asn | Lys |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |     |
| Val | Asn | Val | Val | Leu | Gln | Asn | Phe | Met | Tyr | Thr | Met | Leu | Arg | Asp | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Asn | Ala | Thr | Ala | Ala | Lys | Met | Ser | Leu | Asp | Val | Met | Ile | Glu | Leu | Tyr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |

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Glu Asp Asp Gly Pro Thr Ala Arg Asp Leu Leu Val Gln Tyr Ala Thr  
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Gly Lys Lys Ser Ser Lys Asn Lys Lys Lys Leu Glu Lys Ala Met Lys  
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Gln Lys Ile Arg Met Ala Gln Met Arg Lys Glu Leu Asp Ala Ala Pro  
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 <213> Homo sapiens

<400> 11492

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| Met | Gly | Ala | Ser | Ala | Arg | Leu | Leu | Arg | Ala | Val | Ile | Met | Gly | Ala | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Ser | Gly | Lys | Gly | Thr | Val | Ser | Ser | Arg | Ile | Thr | Thr | His | Phe | Glu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Lys | His | Leu | Ser | Ser | Gly | Asp | Leu | Leu | Arg | Asp | Asn | Met | Leu | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Gly | Thr | Glu | Ile | Gly | Val | Leu | Ala | Lys | Ala | Phe | Ile | Asp | Gln | Gly | Lys |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ile | Pro | Asp | Asp | Val | Met | Thr | Arg | Leu | Ala | Leu | His | Glu | Leu | Lys |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
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|     |     |     | 85  |     |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Pro | Gln | Ala | Glu | Ala | Leu | Asp | Arg | Ala | Tyr | Gln | Ile | Asp | Thr | Val | Ile |
|     |     | 100 |     |     |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Asn | Leu | Asn | Val | Pro | Phe | Glu | Val | Ile | Lys | Gln | Arg | Leu | Thr | Ala | Arg |
|     | 115 |     |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Trp | Ile | His | Pro | Ala | Ser | Gly | Arg | Val | Tyr | Asn | Ile | Glu | Phe | Asn | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Pro | Lys | Thr | Val | Gly | Ile | Asp | Asp | Leu | Thr | Gly | Glu | Pro | Leu | Ile | Gln |
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| His | Pro | Phe | Phe | Leu | Leu | Ser | Pro | Val | Met | Gly | Leu | Leu | Ser | Arg | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
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|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala | Val | Lys | Gly | Ala | Ala | Leu | Val | Glu | Ala | Gly | Leu | Glu | Gly | Glu | Ala |
|     |     |     | 50  |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Arg | Thr | Pro | Leu | Ala | Ile | Pro | His | Thr | Pro | Trp | Gly | Arg | Arg | Pro | Gly |
|     |     |     | 65  |     | 70  |     |     |     | 75  |     |     |     |     | 80  |     |
| Glu | Glu | Ala | Glu | Asp | Ser | Gly | Gly | Pro | Gly | Glu | Asp | Arg | Glu | Thr | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Leu | Lys | Thr | Ser | Ser | Ser | Leu | Pro | Glu | Ala | Trp | Gly | Leu | Leu | Asp |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
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|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gly | Gln | Gly | Ser | Gln | Phe | Ala | Asp | Gly | Gln | Arg | Ala | Pro | Leu | Ser | Pro |
|     |     |     | 130 |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
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|     |     |     | 145 |     | 150 |     |     |     | 155 |     |     |     |     | 160 |     |
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|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
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| Glu | Asp | Asp | Glu | Glu | Ala | Val | Lys | Lys | Glu | Ala | His | Arg | Thr | Ser | Thr |
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<400> 11497

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| Met | Ala | Ser | Asn | Ser | Thr | Lys | Ser | Phe | Leu | Ala | Asp | Ala | Gly | Tyr | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu | Gln | Glu | Leu | Asp | Ala | Asn | Ser | Ala | Leu | Met | Glu | Leu | Asp | Lys | Gly |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu | Arg | Ser | Gly | Lys | Leu | Gly | Glu | Gln | Cys | Glu | Ala | Val | Val | Arg | Phe |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Arg | Leu | Phe | Gln | Lys | Tyr | Pro | Phe | Pro | Ile | Leu | Ile | Asn | Ser | Ala |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Phe | Leu | Lys | Leu | Ala | Asp | Val | Phe | Arg | Val | Gly | Asn | Asn | Phe | Leu | Arg |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Leu | Cys | Val | Leu | Lys | Val | Thr | Gln | Gln | Ser | Glu | Lys | His | Leu | Glu | Lys |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ile | Leu | Asn | Val | Asp | Glu | Phe | Val | Lys | Arg | Ile | Phe | Ser | Val | Ile | His |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ser | Asn | Asp | Pro | Val | Ala | Arg | Ala | Ile | Thr | Leu | Arg | Met | Leu | Gly | Ser |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Ala | Ser | Ile | Ile | Pro | Glu | Arg | Lys | Asn | Ala | His | His | Ser | Ile | Arg |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gln | Ser | Leu | Asp | Ser | His | Asp | Asn | Val | Glu | Val | Glu | Ala | Ala | Val | Phe |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ala | Ala | Ala | Asn | Phe | Ser | Ala | Gln | Ser | Lys | Asp | Phe | Ala | Val | Gly | Ile |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Cys | Asn | Lys | Ile | Ser | Glu | Met | Ile | Gln | Gly | Leu | Ala | Thr | Pro | Val | Asp |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Leu | Lys | Leu | Lys | Leu | Ile | Pro | Ile | Leu | Gln | His | Met | His | His | Asp | Ala |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Ile | Leu | Ala | Ser | Ser | Ala | Arg | Gln | Leu | Leu | Gln | Gln | Leu | Val | Thr | Ser |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
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| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Leu | Ala | Ala | Ser | Ser | Leu | Val | Asp | Thr | Pro | Lys | Gln | Ile | Gln | Leu | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Leu | Gln | Tyr | Leu | Lys | Asn | Asp | Pro | Arg | Lys | Ala | Val | Lys | Arg | Leu | Ala |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ile | Gln | Asp | Leu | Lys | Leu | Leu | Ala | Asn | Lys | Thr | Pro | His | Thr | Trp | Ser |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Arg | Glu | Asn | Ile | Gln | Ala | Leu | Cys | Glu | Cys | Ala | Leu | Gln | Thr | Pro | Tyr |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Asp | Ser | Leu | Lys | Leu | Gly | Met | Leu | Ser | Val | Leu | Ser | Thr | Leu | Ser | Gly |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Thr | Ile | Ala | Ile | Lys | His | Tyr | Phe | Ser | Ile | Val | Pro | Gly | Asn | Val | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Ser | Pro | Arg | Ser | Ser | Asp | Leu | Val | Lys | Leu | Ala | Gln | Glu | Cys | Cys |

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385 390 395 400  
Asp Ser Pro Gly Ala Gln Ala Thr Leu Lys Ile Ala Leu Asn Cys Met  
405 410 415  
Val Lys Leu Ala Lys Gly Arg Pro His Leu Ser Gln Ser Val Val Glu  
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Met Cys His Cys Leu Ala Ala Ile Ala Met Gln Leu Pro Val Leu Gly  
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Trp Leu Asn Ser Leu Lys Glu Phe Ser His Ala Glu Gln Cys Leu Thr  
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| Met | Met | Leu | Gly | Pro | Glu | Gly | Gly | Glu | Gly | Phe | Val | Val | Lys | Leu | Arg |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Gly | Leu | Pro | Trp | Ser | Cys | Ser | Val | Glu | Asp | Val | Gln | Asn | Phe | Leu | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asp | Cys | Thr | Ile | His | Asp | Gly | Ala | Ala | Gly | Val | His | Phe | Ile | Tyr | Thr |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg | Glu | Gly | Arg | Gln | Ser | Gly | Glu | Ala | Phe | Val | Glu | Leu | Gly | Ser | Glu |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Asp | Asp | Val | Lys | Met | Ala | Leu | Lys | Lys | Asp | Arg | Glu | Ser | Met | Gly | His |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Tyr | Ile | Glu | Val | Phe | Lys | Ser | His | Arg | Thr | Glu | Met | Asp | Trp | Val |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Lys | His | Ser | Gly | Pro | Asn | Ser | Ala | Asp | Ser | Ala | Asn | Asp | Gly | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Val | Arg | Leu | Arg | Gly | Leu | Pro | Phe | Gly | Cys | Thr | Lys | Glu | Glu | Ile | Val |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Phe | Phe | Ser | Gly | Leu | Glu | Ile | Val | Pro | Asn | Gly | Ile | Thr | Leu | Pro |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Val | Asp | Pro | Glu | Gly | Lys | Ile | Thr | Gly | Glu | Ala | Phe | Val | Gln | Phe | Ala |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
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|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Gly | His | Arg | Tyr | Ile | Glu | Val | Phe | Lys | Ser | Ser | Gln | Glu | Glu | Val | Arg |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Ser | Tyr | Ser | Asp | Pro | Pro | Leu | Lys | Phe | Met | Ser | Val | Gln | Arg | Pro | Gly |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Pro | Tyr | Asp | Arg | Pro | Gly | Thr | Ala | Arg | Arg | Tyr | Ile | Gly | Ile | Val | Lys |
|     | 210 |     |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |
| Gln | Ala | Gly | Leu | Glu | Arg | Met | Arg | Pro | Gly | Ala | Tyr | Ser | Thr | Gly | Tyr |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Gly | Gly | Tyr | Glu | Glu | Tyr | Ser | Gly | Leu | Ser | Asp | Gly | Tyr | Gly | Phe | Thr |
|     |     |     | 245 |     |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Thr | Asp | Leu | Phe | Gly | Arg | Asp | Leu | Ser | Tyr | Cys | Leu | Ser | Gly | Met | Tyr |
|     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |     |
| Asp | His | Arg | Tyr | Gly | Asp | Ser | Glu | Phe | Thr | Val | Gln | Ser | Thr | Thr | Gly |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| His | Cys | Val | His | Met | Arg | Gly | Leu | Pro | Tyr | Lys | Ala | Thr | Glu | Asn | Asp |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ile | Tyr | Asn | Phe | Phe | Ser | Pro | Leu | Asn | Pro | Val | Arg | Val | His | Ile | Glu |
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| Ile | Gly | Pro | Asp | Gly | Arg | Val | Thr | Gly | Glu | Ala | Asp | Val | Glu | Phe | Ala |
|     |     |     | 325 |     |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Thr | His | Glu | Glu | Ala | Val | Ala | Ala | Met | Ser | Lys | Asp | Arg | Ala | Asn | Met |
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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | His | Arg | Tyr | Ile | Glu | Leu | Phe | Leu | Asn | Ser | Thr | Thr | Gly | Ala | Ser |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     |     | 365 |     |     |
| Asn | Gly | Ala | Tyr | Ser | Ser | Gln | Val | Met | Gln | Gly | Met | Gly | Val | Ser | Ala |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Ala | Gln | Ala | Thr | Tyr | Ser | Gly | Leu | Glu | Ser | Gln | Ser | Val | Ser | Gly | Cys |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Tyr | Gly | Ala | Gly | Tyr | Ser | Gly | Gln | Asn | Ser | Met | Gly | Gly | Tyr | Asp |     |
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<210> 11501

<211> 441

<212> PRT

<213> Homo sapiens

<400> 11501

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Ala Val Asn Leu Gln Gln Asp Ala Phe Val Val Ile Gly Arg Asp Thr
          35           40           45
Arg Pro Ser Ser Glu Lys Leu Ser Gln Ser Val Ile Asp Gly Val Thr
          50           55           60
Val Leu Gly Gly Gln Phe His Asp Tyr Gly Leu Leu Thr Thr Pro Gln
          65           70           75           80
Leu His Tyr Met Val Tyr Cys Arg Asn Pro Gly Gly Arg Tyr Gly Lys
          85           90           95
Ala Thr Ile Glu Gly Tyr Tyr Gln Lys Leu Ser Lys Ala Phe Val Glu
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Leu Thr Lys Gln Ala Ser Cys Ser Gly Asp Glu Tyr Arg Ser Leu Lys
          115          120          125
Val Asp Cys Ala Asn Gly Ile Gly Ala Leu Lys Leu Arg Glu Met Glu
          130          135          140
His Tyr Phe Ser Gln Gly Leu Ser Val Gln Leu Phe Asn Asp Gly Ser
          145          150          155          160
Lys Gly Lys Leu Asn His Leu Cys Gly Ala Asp Phe Val Lys Ser His
          165          170          175
Gln Lys Pro Pro Gln Gly Met Glu Ile Lys Ser Asn Glu Arg Cys Cys
          180          185          190
Ser Phe Asp Gly Asp Ala Asp Arg Ile Val Tyr Tyr Tyr His Asp Ala
          195          200          205
Asp Gly His Phe His Leu Ile Asp Gly Asp Lys Ile Ala Thr Leu Ile
          210          215          220
Ser Ser Phe Leu Lys Glu Leu Leu Val Glu Ile Gly Glu Ser Leu Asn
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Ile Gly Val Val Gln Thr Ala Tyr Ala Asn Gly Ser Ser Thr Arg Tyr

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009220' 69462960

245 250 255  
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 260 265 270  
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 275 280 285  
 Glu Ala Asn Gly His Gly Thr Ala Leu Phe Ser Thr Ala Val Glu Met  
 290 295 300  
 Lys Ile Lys Gln Ser Ala Glu Gln Leu Glu Asp Lys Lys Arg Lys Ala  
 305 310 315 320  
 Ala Lys Met Leu Glu Asn Ile Ile Asp Leu Phe Asn Gln Ala Ala Gly  
 325 330 335  
 Asp Ala Ile Ser Asp Met Leu Val Ile Glu Ala Ile Leu Ala Leu Lys  
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 Gly Leu Thr Val Gln Gln Trp Asp Ala Leu Tyr Thr Asp Leu Pro Asn  
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 Arg Gln Leu Lys Val Gln Val Ala Asp Arg Arg Val Ile Ser Thr Thr  
 370 375 380  
 Asp Ala Glu Arg Gln Ala Val Thr Pro Pro Gly Leu Gln Glu Ala Ile  
 385 390 395 400  
 Asn Asp Leu Val Lys Lys Tyr Lys Leu Ser Arg Ala Phe Val Arg Pro  
 405 410 415  
 Ser Gly Thr Glu Asp Val Val Arg Val Tyr Ala Glu Ala Asp Ser Gln  
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 Val Arg Lys Cys Arg Ser Pro Cys Thr  
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 <212> DNA  
 <213> Homo sapiens

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 <221> CDS  
 <222> (9).. (1718)

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000220-09462950

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<210> 11503  
 <211> 570  
 <212> PRT  
 <213> Homo sapiens

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<400> 11503
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Gly Arg Ala Thr Asp Ser Lys Glu Pro Pro Gly Glu Leu Cys Pro Asp
             35             40            45
Val Leu Tyr Arg Thr Gly Arg Thr Leu His Gly Gln Glu Thr Tyr Thr
             50             55            60
Pro Arg Leu Ile Leu Met Asp Leu Lys Gly Ser Leu Ser Ser Leu Lys
             65             70            75            80
Glu Glu Gly Gly Leu Tyr Arg Asp Lys Gln Leu Asp Ala Ala Ile Ala
             85             90            95
Trp Gln Gly Lys Leu Thr Thr His Lys Glu Glu Leu Tyr Pro Lys Asn
             100            105            110
Pro Tyr Leu Gln Asp Phe Leu Ser Ala Glu Gly Val Leu Ser Ser Asp
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Gly Val Trp Arg Val Lys Ser Ile Pro Asn Gly Lys Gly Ser Ser Pro
             130            135            140
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000220" 69462960

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180 185 190  
Glu Ala Phe Gly Gln Gly Glu Ser Val Leu Lys Glu Pro Lys Tyr Gln  
195 200 205  
Glu Glu Leu Glu Asp Arg Leu His Phe Tyr Val Glu Glu Cys Asp Tyr  
210 215 220  
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225 230 235 240  
Val Gly Ala Lys Ala Ala Glu Leu Leu Gln Asp Glu Tyr Ser Gly Arg  
245 250 255  
Gly Ile Ile Thr Trp Gly Leu Leu Pro Gly Pro Tyr His Arg Gly Glu  
260 265 270  
Ala Gln Arg Asn Ile Tyr Arg Leu Leu Asn Thr Ala Phe Gly Leu Val  
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325 330 335  
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355 360 365  
Thr Ala Gly Ala Ile Ile Pro Phe Pro Leu Ala Pro Gly Gln Ser Leu  
370 375 380  
Pro Asp Ser Leu Val Gln Phe Gly Gly Ala Thr Pro Trp Thr Pro Leu  
385 390 395 400  
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Val Leu Arg Gly Ile Asp Arg Ala Cys His Thr Ser Gln Leu Thr Pro  
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Gly Thr Pro Pro Pro Ser Ala Leu His Ala Cys Thr Thr Gly Glu Glu  
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Ser His Leu Leu Leu Thr Pro Cys Arg Val Ala Pro Pro Tyr Pro His  
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Leu Phe Ser Ser Cys Ser Pro Pro Gly Met Val Leu Asp Gly Ser Pro  
485 490 495  
Lys Gly Ala Ala Val Glu Ser Ile Pro Val Phe Gly Ala Leu Cys Ser  
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Ser Ser Ser Leu His Gln Thr Leu Glu Ala Leu Ala Arg Asp Leu Thr  
515 520 525  
Lys Leu Asp Leu Arg Arg Trp Ala Ser Phe Met Asp Ala Gly Val Glu

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 <212> PRT  
 <213> Homo sapiens

<400> 11505

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Ser | Ile | Met | Glu | Gly | Pro | Leu | Ser | Lys | Trp | Thr | Asn | Val | Met |
| 1   |     |     |     | 5   |     |     |     | 10  |     |     |     |     |     | 15  |     |
| Lys | Gly | Trp | Gln | Tyr | Arg | Trp | Phe | Val | Leu | Asp | Tyr | Asn | Ala | Gly | Leu |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     |     | 30  |     |
| Leu | Ser | Tyr | Tyr | Thr | Ser | Lys | Asp | Lys | Met | Met | Arg | Gly | Ser | Arg | Arg |
|     |     |     | 35  |     |     |     |     | 40  |     |     |     |     |     | 45  |     |
| Gly | Cys | Val | Arg | Leu | Arg | Gly | Ala | Val | Ile | Gly | Ile | Asp | Asp | Glu | Asp |
|     |     |     | 50  |     |     |     |     | 55  |     |     |     |     |     | 60  |     |
| Asp | Ser | Thr | Phe | Thr | Ile | Thr | Val | Asp | Gln | Lys | Thr | Phe | His | Phe | Gln |
|     |     |     | 65  |     |     |     |     | 70  |     |     |     |     |     | 75  |     |
| Ala | Arg | Asp | Ala | Asp | Glu | Arg | Glu | Lys | Trp | Ile | His | Ala | Leu | Glu | Glu |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Thr | Ile | Leu | Arg | His | Thr | Leu | Gln | Leu | Gln | Gly | Leu | Asp | Ser | Gly | Phe |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Val | Pro | Ser | Val | Gln | Asp | Phe | Asp | Lys | Lys | Leu | Thr | Glu | Ala | Asp | Ala |
|     |     |     | 115 |     |     |     |     | 120 |     |     |     |     |     | 125 |     |
| Tyr | Leu | Gln | Ile | Leu | Ile | Glu | Gln | Leu | Lys | Leu | Phe | Asp | Asp | Lys | Leu |
|     |     |     | 130 |     |     |     |     | 135 |     |     |     |     |     | 140 |     |
| Gln | Asn | Cys | Lys | Glu | Asp | Glu | Gln | Arg | Lys | Lys | Ile | Glu | Thr | Leu | Lys |
|     |     |     | 145 |     |     |     |     | 150 |     |     |     |     |     | 155 |     |
| Glu | Thr | Thr | Asn | Ser | Met | Val | Glu | Ser | Ile | Lys | His | Cys | Ile | Val | Leu |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Leu | Gln | Ile | Ala | Lys | Ser | Thr | Ile | Asn | Pro | Val | Asp | Ala | Ile | Tyr | Gln |

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|            |            |             |             |             |             |      |
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| attgtgaaac | aaacactgag | atgtacagtt  | caaaccacgt  | gaagtgggaag | cctcagaatt  | 1260 |
| ttcctcactt | tcattaaaga | ttctttgatg  | gaaaaattta  | gaagcattgg  | ctctagatgg  | 1320 |
| taagcaagtc | atTTTTTtcc | aacccaaaata | aaaaatacat  | atactaagct  | tctggggccc  | 1380 |
| caggacttaa | cacagtttcc | ttccttccct  | cccttcttcc  | ttccctcccg  | tagtagttgc  | 1440 |
| ttaataaata | cttaatttgg | cacttatttg  | gggcccggctt | tttgccaggc  | tactacatgc  | 1500 |
| ctgggcatag | tgttctaaga | gtgaacccaa  | agaataagct  | tcctgccctc  | agggagttaa  | 1560 |
| tgttttgtta | tttggcatat | aaaaagaact  | tggtgtgtta  | aaagaaggga  | aatagctgtg  | 1620 |
| tgaaaggaat | gaggcaagga | aaaaggggaa  | tgtctaaata  | taaatctccg  | tttgaccag   | 1680 |
| cctcctgttt | atccagtttt | ccttactaag  | taactgaatt  | tcattttctt  | ttcttaattg  | 1740 |
| acagactacc | agaaaattgc | tagttttcta  | aagagaaaact | actgatttga  | gtgatgatct  | 1800 |
| gtgtgtaatg | gtcctcaaaa | ggagccgttc  | tcttggtggc  | agcagttgga  | ttcagagctt  | 1860 |
| gggcatcctg | atcatcagga | cagacattta  | caggatatgt  | atagaattac  | tgccccaaat  | 1920 |
| agagggcaaa | gcactagaca | gaagggtgag  | atccaagggg  | aattttggaat | ctatatattca | 1980 |
| tcagaatgca | ctcaaagcaa | aaacagtaag  | tatgctccat  | ataaagaaat  | gtttcttaaa  | 2040 |
| atgtttttta | tttaacccta | cccattccct  | ggcaaatctt  | tttcttttaa  | atcaaataag  | 2100 |
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 <212> DNA  
 <213> Homo sapiens

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 <222> (230).. (2821)

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| ttgtctacat  | gaaaatgggt | gtataacttt | acgtgttcga | agatcttata  | ataacatttt  | 120  |
| taccacttca  | aatgaggaac | cagatccaga | tccagttcag | gagcttacct  | atgattttacg | 180  |
| aagccagtg   | gatgcaatca | gggtgacaaa | aaccgtccgt | cccttcagta  | tggtgtgctg  | 240  |
| tcctgtcaat  | gagaatgcag | ccgccctcgt | agtgagtgat | ggcagggtca  | tgatatggga  | 300  |
| actcaagtct  | gcagtttgta | atcgaaattc | acggaacagt | agttctgggtg | tgtcaccttt  | 360  |
| atattcacca  | gtgtctttct | gtggaattcc | tgtaggagtg | ctacagaata  | aactcccaga  | 420  |
| cctttcctta  | gataacatga | ttgggcaaag | tgcaattgct | ggggaagaac  | atcccagagg  | 480  |
| ttcaattctg  | cgggaagtgc | acctcaagtt | cctgctgacg | ggactgcttt  | caggactgcc  | 540  |
| cgcaccacag  | tttgctattc | gtatgtgtcc | accgttgacc | acaaaaaaca  | tcaagatgta  | 600  |
| tcagccactg  | ctggctgttg | gtacaagtaa | tggttctgtc | ctgggtgacc  | atctcaccag  | 660  |
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| aagtttgact  | agttttcttt | cttttgctac | ctcaacacca | aacaatatgg  | gattagttag  | 780  |
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| aggcaatgat  | gaatctgcc  | tcgaaatgat | taaagtatct | catttgaagc  | agtatttggc  | 900  |
| agtcgtattc  | agagataaac | ccctggagct | atgggatgtt | aggacttgta  | cccttcttag  | 960  |
| agagatgtcc  | aaaaacttcc | ctacaataac | tgctttggag | tggtcaccat  | ctcacaactt  | 1020 |
| gaagagcctg  | agaaagaagc | aacttgcaac | tcgagaggcc | atggcccggc  | agaccgtagt  | 1080 |
| ctcagacaca  | gagctgagta | ttgttgaatc | atctgtgatc | agcttgctgc  | aggaggcaga  | 1140 |

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| tccacc  | agat   | ggaagt | atgg   | gtagt  | tattac | ctgcat | cgcct  | tggaa   | agggt  | atacat | tagt   | 1320   |      |
| gcttgg  | agat   | atggat | tgaa   | atttaa | at     | ctggg  | acttg  | aaagg   | cagag  | tatcc  | agagg  | 1380   |      |
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| ggtgag  | cagt   | ttaaga | agtg   | gcagaa | atgt   | gacctt | tcgt   | atattg  | gatg   | tggact | gggtg  | 1560   |      |
| tacgtc  | agat   | aaagt  | gatct  | tggcct | caga   | tgatg  | gggtgc | atcaga  | gtcc   | tagaga | tgtc   | 1620   |      |
| tatgaag | tct    | gcgtg  | cttta  | gaatg  | gatga  | acaaga | gtta   | accga   | gcctg  | tgtgg  | tgcc   | 1680   |      |
| ctatct  | cctt   | gttcca | aggg   | cctct  | cttgc  | cttgaa | agcc   | ttctt   | attac  | accag  | ccttg  | 1740   |      |
| gaatgg  | acag   | tattct | tttg   | acattt | ctca   | tggtg  | actat  | ccagaa  | aatg   | aagaa  | ataaa  | 1800   |      |
| gaatct  | cctc   | caaga  | acagt  | tgaatt | ccatt  | gtcta  | atgac  | ataaa   | gaaa   | tggtg  | cttga  | 1860   |      |
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| ggagct  | gcac   | ttctg  | gactg  | tcgct  | gccc   | ctacct | gcac   | agctt   | atccc  | aggaa  | agtc   | 1980   |      |
| agccag  | caca   | acagct | cccta  | aagaag | ctgc   | tcctc  | gagac  | aaa     | ctgag  | ca     | ccca   | actgga | 2040 |
| tatatg  | ctat   | aacgt  | gctct  | gtgaaa | atgc   | ctactt | tcag   | aaatt   | tcagc  | tagaa  | aggg   | 2100   |      |
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| actgct  | cttg   | ggc    | aaacag | acaga  | gctgt  | gcagtt | gctg   | ttgga   | aa     | ca     | gata   | 2220   |      |
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| gacata  | cggc   | gagt   | tgga   | atc    | gggct  | gcatg  | gctgg  | caaaa   | gtcgt  | tttga  | atcctg | 2460   |      |
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| atcaa   | aggct  | ctcct  | gttgc  | tcctc  | ctct   | gggct  | gcttt  | tttag   | cgtgg  | cagag  | acgct  | 2580   |      |
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| tggct   | gtggc  | caccg  | tcaca  | gtccag | gatg   | aagagg | agta   | cagggt  | ccctg  | tgagc  | tgttt  | 2940   |      |
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| tttgt   | atcct  | gcgtt  | gtgt   | cagaa  | agaac  | gtgaat | gctt   | aagatt  | tttga  | aagtac | ataa   | 3060   |      |
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| acctat  | agta   | aatga  | aat    | gtgag  | atgtt  | ttctc  | aaata  | tatg    | ctgtg  | ctgtac | ttat   | 3240   |      |
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| atcac   | agtaa  | cctcat | tttt   | gaagt  | ctttc  | tttgt  | acttt  | aatgtt  | ctct   | ctgtt  | cta    | 3540   |      |
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| Met | Val | Cys | Cys | Pro | Val | Asn | Glu | Asn | Ala | Ala | Ala | Leu | Val | Val | Ser |
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| Asp | Gly | Arg | Val | Met | Ile | Trp | Glu | Leu | Lys | Ser | Ala | Val | Cys | Asn | Arg |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Asn | Ser | Arg | Asn | Ser | Ser | Ser | Gly | Val | Ser | Pro | Leu | Tyr | Ser | Pro | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ser | Phe | Cys | Gly | Ile | Pro | Val | Gly | Val | Leu | Gln | Asn | Lys | Leu | Pro | Asp |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Ser | Leu | Asp | Asn | Met | Ile | Gly | Gln | Ser | Ala | Ile | Ala | Gly | Glu | Glu |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| His | Pro | Arg | Gly | Ser | Ile | Leu | Arg | Glu | Val | His | Leu | Lys | Phe | Leu | Leu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Gly | Leu | Leu | Ser | Gly | Leu | Pro | Ala | Pro | Gln | Phe | Ala | Ile | Arg | Met |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     |     | 110 |     |
| Cys | Pro | Pro | Leu | Thr | Thr | Lys | Asn | Ile | Lys | Met | Tyr | Gln | Pro | Leu | Leu |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ala | Val | Gly | Thr | Ser | Asn | Gly | Ser | Val | Leu | Val | Tyr | His | Leu | Thr | Ser |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Gly | Leu | Leu | His | Lys | Glu | Leu | Ser | Ile | His | Ser | Cys | Glu | Val | Lys | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ile | Glu | Trp | Thr | Ser | Leu | Thr | Ser | Phe | Leu | Ser | Phe | Ala | Thr | Ser | Thr |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Pro | Asn | Asn | Met | Gly | Leu | Val | Arg | Asn | Glu | Leu | Gln | Leu | Val | Asp | Leu |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     |     | 190 |     |
| Pro | Thr | Gly | Arg | Ser | Ile | Ala | Phe | Arg | Gly | Glu | Arg | Gly | Asn | Asp | Glu |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Ser | Ala | Ile | Glu | Met | Ile | Lys | Val | Ser | His | Leu | Lys | Gln | Tyr | Leu | Ala |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Val | Val | Phe | Arg | Asp | Lys | Pro | Leu | Glu | Leu | Trp | Asp | Val | Arg | Thr | Cys |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Thr | Leu | Leu | Arg | Glu | Met | Ser | Lys | Asn | Phe | Pro | Thr | Ile | Thr | Ala | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Glu | Trp | Ser | Pro | Ser | His | Asn | Leu | Lys | Ser | Leu | Arg | Lys | Lys | Gln | Leu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     |     | 270 |     |
| Ala | Thr | Arg | Glu | Ala | Met | Ala | Arg | Gln | Thr | Val | Val | Ser | Asp | Thr | Glu |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Ser | Ile | Val | Glu | Ser | Ser | Val | Ile | Ser | Leu | Leu | Gln | Glu | Ala | Glu |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ser | Lys | Ser | Glu | Leu | Ser | Gln | Asn | Ile | Ser | Ala | Arg | Gly | His | Phe | Val |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Phe | Thr | Asp | Ile | Asp | Gly | Gln | Val | Tyr | His | Leu | Thr | Val | Glu | Gly | Asn |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Val | Lys | Asp | Ser | Ala | Arg | Ile | Pro | Pro | Asp | Gly | Ser | Met | Gly | Ser |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ile | Thr | Cys | Ile | Ala | Trp | Lys | Gly | Asp | Thr | Leu | Val | Leu | Gly | Asp | Met |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |

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770 775 780  
His Ser Met Arg Tyr Phe Asp Arg Ala Ala Leu Phe Val Glu Ala Cys  
785 790 795 800  
Leu Lys Tyr Gly Ala Phe Glu Val Thr Glu Asp Thr Glu Lys Leu Ile  
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Thr Ala Ile Tyr Ala Asp Tyr Ala Arg Ser Leu Lys Asn Leu Gly Phe  
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Val Phe Val Gly Ser Pro Cys Gly Leu Asn Leu Arg Asn Val Leu Trp
          50          55          60
His Gly Phe Ala Ser Pro Glu Glu Ile Pro Pro Lys Tyr Cys Ser Met
          65          70          75          80
Met Ile Leu Leu Thr Ala Gly Leu Gly Gln Leu Leu Lys Ser Tyr Leu
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Gln Asn Thr Lys Leu Thr Leu Ala His Arg Ser Phe Ile Ser Leu Thr
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          130          135          140
Met Leu Pro Tyr Trp Glu Val Ala Leu Val Lys Phe Lys Ser His Arg
          145          150          155          160
Phe Ala Asp Cys Ala Ile Leu Leu Leu Thr Gln Leu Glu Thr Gly Leu
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Arg Asn Val Phe Ala Thr Leu Asn Arg Cys Pro Lys Arg Leu Leu Thr
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Ala Glu Ser Thr Ala Leu Tyr Thr Thr Phe Asp Gln Ile Leu Ala Lys
          195          200          205
His Leu Asn Asp Gly Lys Ile Asn Gln Leu Pro Leu Phe Leu Gly Glu
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Arg Ile Arg Asp His Leu Ser His Gly Glu Ile Asn Leu His Glu Phe
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| Ser | Lys | Glu | Thr | Thr | Asn | Gln | Leu | Leu | Ala | Phe | Ser | Leu | Val | Leu | Leu |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Arg | Phe | Val | Asp | Asp | Cys | Leu | Leu | Ser | Val | Phe | Lys | Glu | Lys | Ser |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ala | Val | Glu | Leu | Leu | Ile | Ser | Leu | Ala | Glu | Gly | Tyr | Ser | Ser | Arg | Cys |
|     |     | 290 |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| His | Pro | Val | Phe | Gln | Leu | Lys | Lys | Gln | Val | Leu | Ser | Cys | Glu | Glu | Ser |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Ile | Arg | Val | Trp | Ala | Leu | Leu | Pro | Phe | Pro | Glu | Glu | Leu | Thr | Arg | Gln |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ala | Val | Arg | Leu | Glu | Asp | Asn | Ser | Glu | Thr | Asn | Ala | Cys | His | Ser | Leu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ile | Thr | Lys | Met | Thr | Asp | Glu | Leu | Tyr | His | His | Met | Pro | Glu | Asn | Arg |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Cys | Val | Leu | Lys | Asp | Leu | Asp | Arg | Leu | Pro | Thr | Glu | Thr | Pro | Thr | Ser |
|     |     | 370 |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Asp | Thr | Pro | Leu | Ala | Leu | Ala | Pro | Arg | Lys | Pro | Gln | Pro | Cys | Arg | Cys |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Arg | Arg | Arg | Val | Arg | Pro | Ser | Ile | Arg | Leu | Leu | Ser | Pro | Val | Leu | Ser |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |
| Leu | Ile | Leu | Leu | Leu | Ile | Ala | Leu | Glu | Leu | Val | Asn | Ile | His | Ala | Val |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |
| Cys | Gly | Lys | Asn | Ala | His | Glu | Tyr | Gln | Gln | Tyr | Leu | Lys | Phe | Val | Lys |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |
| Ser | Ile | Leu | Gln | Tyr | Thr | Glu | Asn | Leu | Val | Ala | Tyr | Thr | Ser | Tyr | Glu |
|     |     | 450 |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Lys | Asn | Lys | Trp | Asn | Glu | Thr | Ile | Asn | Leu | Thr | His | Thr | Ala | Leu | Leu |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Lys | Met | Trp | Thr | Phe | Ser | Glu | Lys | Lys | Gln | Met | Leu | Ile | His | Leu | Ala |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |
| Lys | Lys | Ser | Thr | Ser | Lys | Val | Leu | Leu |     |     |     |     |     |     |     |
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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |  |  |
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| 130 |     |     |     |     |     | 135 |     |     |     |     |     | 140 |     |     |     |  |  |  |  |
| Ala | Asp | Ala | Lys | His | Arg | Glu | Arg | Glu | Ala | Ala | Asn | Glu | Ala | Gly | Asp |  |  |  |  |
| 145 |     |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |  |  |  |  |
| Ser | Ser | Gln | Asp | Glu | Ala | Glu | Asp | Asp | Val | Lys | Gln | Ile | Thr | Val | Arg |  |  |  |  |
|     |     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |  |  |  |  |
| Phe | Ser | Arg | Pro | Glu | Ser | Glu | Gln | Ala | Arg | Gln | Arg | Arg | Val | Gln | Ser |  |  |  |  |
|     |     |     |     |     | 180 |     |     |     | 185 |     |     |     |     | 190 |     |  |  |  |  |
| Tyr | Glu | Phe | Leu | Gln | Lys | Lys | His | Ala | Glu | Glu | Pro | Trp | Val | His | Leu |  |  |  |  |
|     |     | 195 |     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |  |  |  |  |
| His | Tyr | Tyr | Gly | Leu | Arg | Asp | Ser | Arg | Ser | Glu | His | Glu | Arg | Gln | Tyr |  |  |  |  |
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| Leu | Leu | Cys | Pro | Gly | Ser | Ser | Gly | Val | Glu | Asn | Thr | Glu | Leu | Val | Lys |  |  |  |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |  |  |  |  |
| Ser | Pro | Ser | Glu | Tyr | Leu | Met | Met | Leu | Met | Pro | Pro | Ser | Gln | Glu | Glu |  |  |  |  |
|     |     |     |     |     | 245 |     |     |     | 250 |     |     |     |     | 255 |     |  |  |  |  |
| Glu | Lys | Asp | Lys | Pro | Val | Ala | Pro | Ser | Asn | Val | Leu | Ser | Met | Ala | Gln |  |  |  |  |
|     |     |     |     | 260 |     |     |     | 265 |     |     |     |     | 270 |     |     |  |  |  |  |
| Leu | Arg | Thr | Leu | Pro | Leu | Ala | Asp | Gln | Ile | Lys | Ile | Leu | Met | Lys | Asn |  |  |  |  |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |  |  |  |  |
| Val | Lys | Val | Met | Pro | Phe | Ala | Asn | Leu | Met | Ser | Leu | Leu | Gly | Pro | Ser |  |  |  |  |
| 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |     |  |  |  |  |
| Ile | Asp | Ser | Val | Ala | Val | Leu | Arg | Gly | Ile | Gln | Lys | Val | Ala | Met | Leu |  |  |  |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |  |  |  |  |
| Val | Gln | Gly | Asn | Trp | Val | Val | Lys | Ser | Asp | Ile | Leu | Tyr | Pro | Lys | Asp |  |  |  |  |
|     |     |     |     | 325 |     |     |     | 330 |     |     |     |     |     | 335 |     |  |  |  |  |
| Ser | Ser | Ser | Pro | His | Ser | Gly | Val | Pro | Ala | Glu | Val | Leu | Cys | Arg | Gly |  |  |  |  |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |  |  |  |  |
| Arg | Asp | Phe | Val | Met | Trp | Lys | Phe | Thr | Gln | Ser | Arg | Trp | Val | Val | Arg |  |  |  |  |
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |  |  |  |
| Lys | Glu | Val | Ala | Thr | Val | Thr | Lys | Leu | Cys | Ala | Glu | Asp | Val | Lys | Asp |  |  |  |  |
|     |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |     |  |  |  |  |
| Phe | Leu | Glu | His | Met | Ala | Val | Val | Arg | Ile | Asn | Lys | Gly | Trp | Glu | Phe |  |  |  |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |  |  |  |
| Ile | Leu | Pro | Tyr | Asp | Gly | Glu | Phe | Ile | Lys | Lys | His | Pro | Asp | Val | Val |  |  |  |  |
|     |     |     |     | 405 |     |     |     | 410 |     |     |     |     |     | 415 |     |  |  |  |  |
| Gln | Arg | Gln | His | Met | Leu | Trp | Thr | Gly | Ile | Gln | Ala | Lys | Leu | Glu | Lys |  |  |  |  |
|     |     |     | 420 |     |     |     |     | 425 |     |     |     |     | 430 |     |     |  |  |  |  |
| Val | Tyr | Asn | Leu | Val | Lys | Glu | Thr | Met | Pro | Lys | Lys | Pro | Asp | Ala | Gln |  |  |  |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |  |  |  |
| Ser | Gly | Pro | Ala | Gly | Leu | Val | Cys | Gly | Asp | Gln | Arg | Ile | Gln | Val | Ala |  |  |  |  |
|     |     | 450 |     |     |     | 455 |     |     |     | 460 |     |     |     |     |     |  |  |  |  |
| Lys | Thr | Lys | Ala | Gln | Gln | Asn | His | Ala | Leu | Leu | Glu | Arg | Glu | Leu | Gln |  |  |  |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |  |  |  |
| Arg | Arg | Lys | Glu | Gln | Leu | Arg | Val | Pro | Ala | Val | Pro | Pro | Gly | Val | Arg |  |  |  |  |
|     |     |     |     | 485 |     |     |     | 490 |     |     |     |     |     | 495 |     |  |  |  |  |
| Ile | Lys | Glu | Glu | Pro | Val | Ser | Glu | Glu | Gly | Glu | Glu | Asp | Glu | Glu | Gln |  |  |  |  |
|     |     |     | 500 |     |     |     | 505 |     |     |     |     | 510 |     |     |     |  |  |  |  |
| Glu | Ala | Glu | Glu | Glu | Pro | Met | Asp | Thr | Ser | Pro | Ser | Gly | Leu | His | Ser |  |  |  |  |

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